

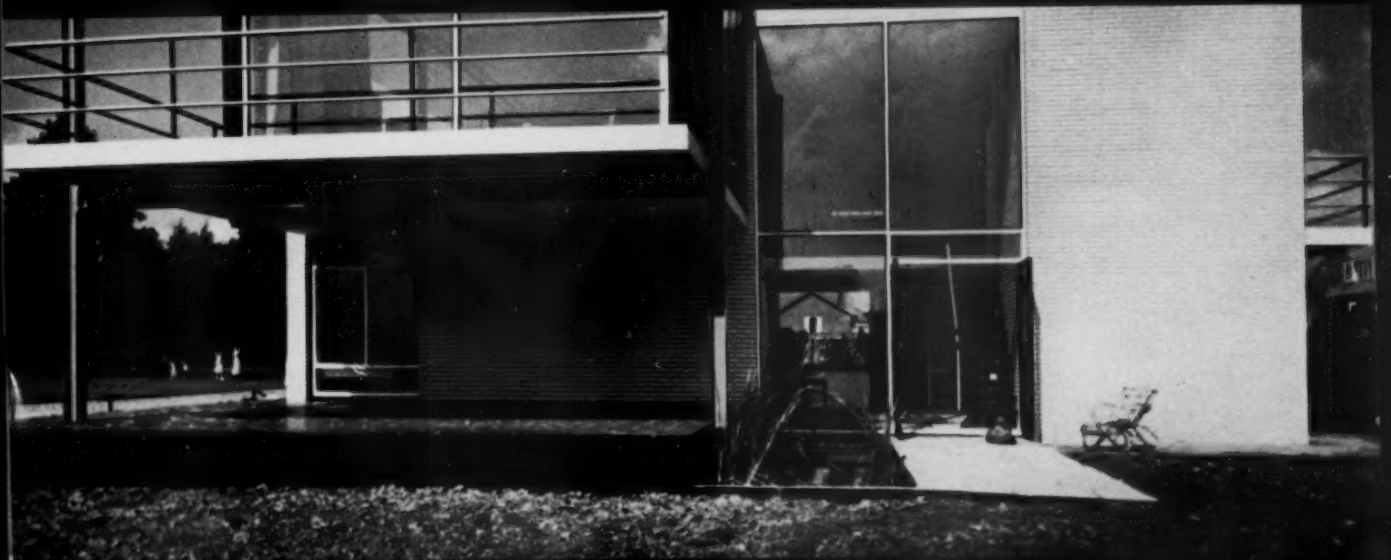
The Architect & Building News

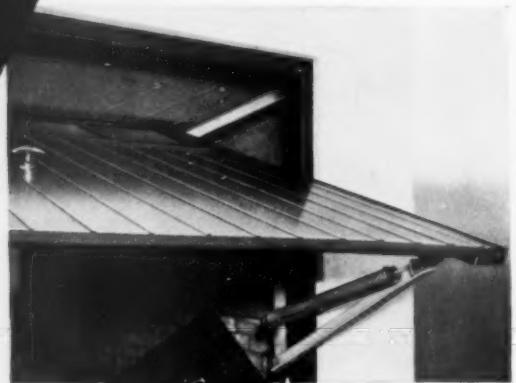
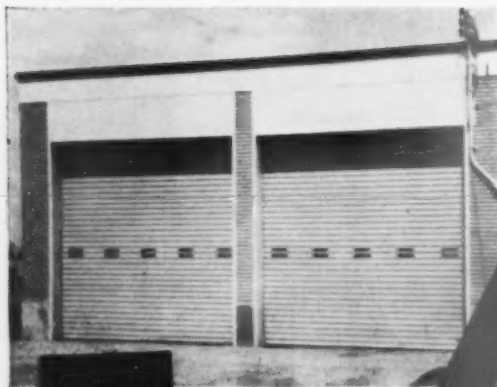
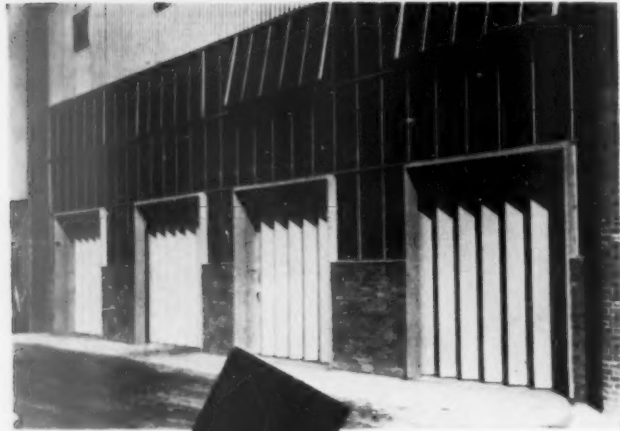
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R·H·S

at the Milan Triennale

The British exhibit at this year's exhibition — a complete three-classroom school — has been acclaimed as an outstanding success. The exhibit, illustrated below, sponsored by the Ministry of Education and designed by the Nottinghamshire County Architect, W. D. Lacey, Esq., A.R.I.B.A., A.M.T.P.I., was framed by Brockhouse Steel Structures Limited.

When the exhibition is over, the school will be presented to the Milan Corporation for re-erection on a housing estate outside the city.

Stanchions in the main hall were constructed from S & L Rectangular Hollow Sections (RHS) — now being used on an ever-increasing scale for structural purposes in the construction of single and multi-storey buildings as stanchions, roof trusses, curtain walling and mullions for window frames.



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CRAWLEY NEW TOWN. Architect: H. S. Howgrave-Graham, A.R.I.B.A., A.M.T.P.I.,
Chief Architect to The Crawley Development Corporation.



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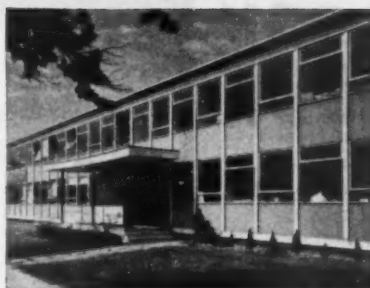
The birth of the Z range The 2' module standard window was developed for the architects of the new towns. These Williams & Williams Z range windows at Northgate went up in 1950—they were among the first in the country.

Tailor made standards Crawley New Town also saw the development of the now established 'CO' standard window—specially made to an intermediate height of 3' 6". These particular ones



at Southgate were specially made by Williams & Williams for Crawley Development Corporation.

Standard factories too To bring in the small manufacturer—and so balance the economy of the area—small factories like this one were built to a standard design. Here Williams & Williams purpose made steel windows and Aluminex Patent Glazing have been used for the sidewalls and Williams & Williams roof lights supply daylight overhead.



The final neighbourhood unit Gossops Green—where wide use has been made of Williams & Williams projected windows—is the 9th and last of the neighbourhood units. It is nearly finished and is already partly occupied.



Curtain Walling on the Post Office Williams & Williams curtain walling with yellow in-fill panels give a light, bright look to the new Post Office, situated just outside the Town Centre.



The Williams & Williams phone boxes. The famous phone boxes in the Town Centre were specially made by Williams & Williams to the design agreed between the architects and the G.P.O.



A new way with dustbins Standard equipment throughout Crawley are these dustbin units. The louvred steel front opens on to a steel box which has a hinged lid and contains the dustbin. Rubbish is disposed of from inside the kitchen and collected from outside the house. Specially designed and made for the Crawley Development Corporation by Williams & Williams.

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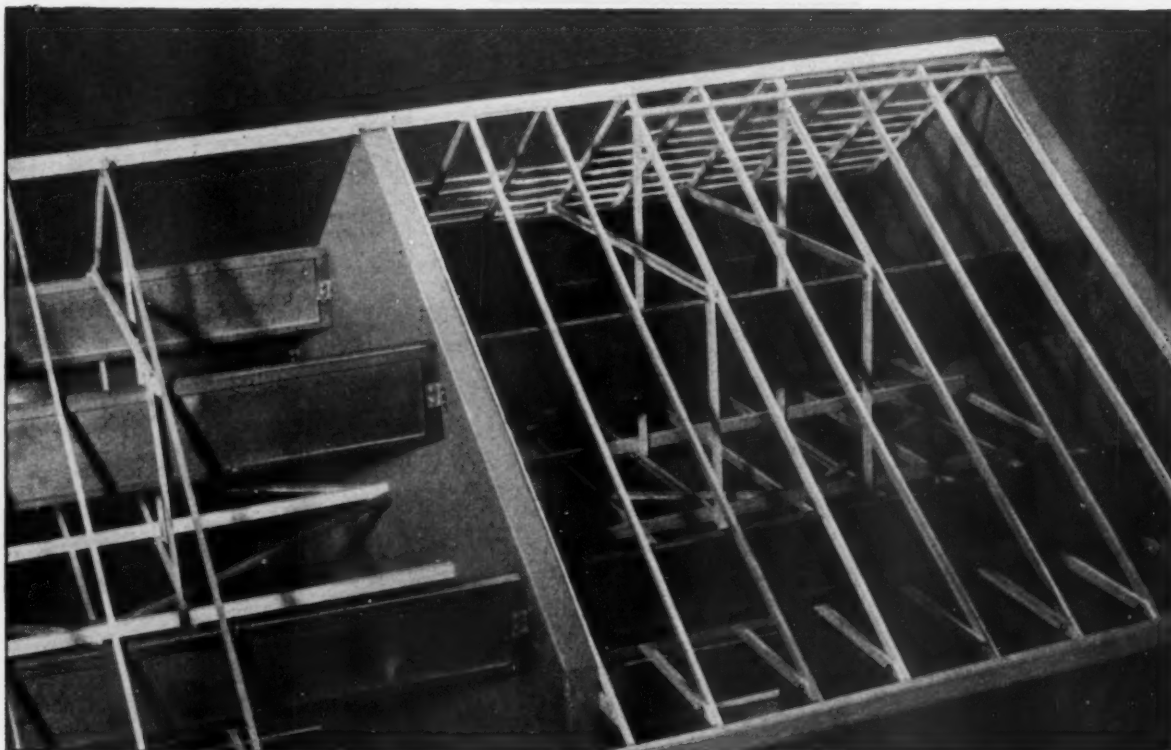
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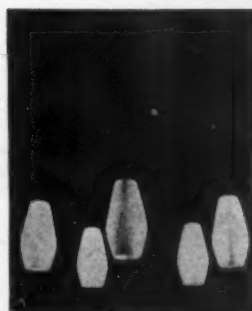
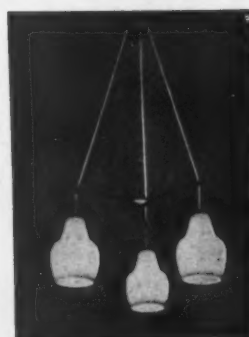
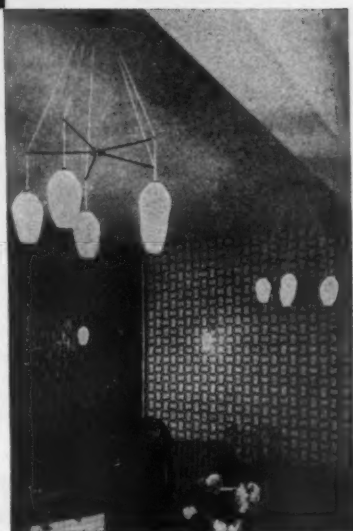
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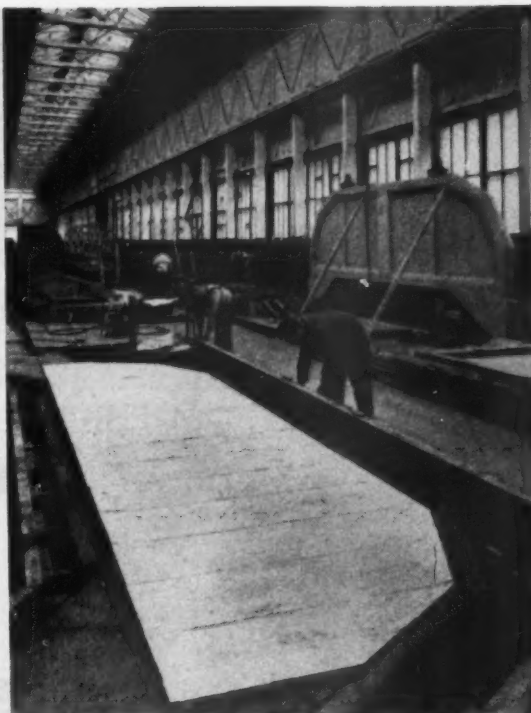
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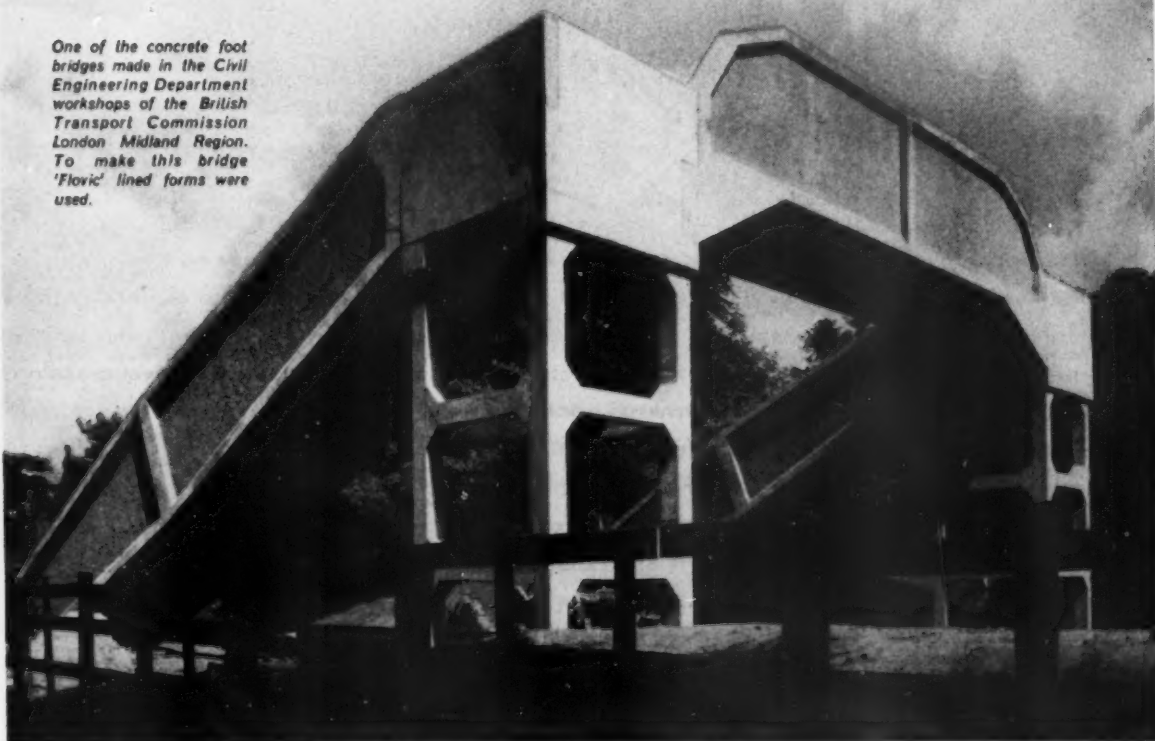


Patterned 'Flovic' copolymer foil shaped by Orbex Ltd., in use in the form used to cast the concrete sections of foot bridges being made in the Civil Engineering Department workshops of the British Transport Commission London Midland Region, Manchester.

'FLOVIC'

'Flovic' is the registered trade mark for the Vinyl copolymer sheet and foil manufactured by I.C.I.

One of the concrete foot bridges made in the Civil Engineering Department workshops of the British Transport Commission London Midland Region. To make this bridge 'Flovic' lined forms were used.



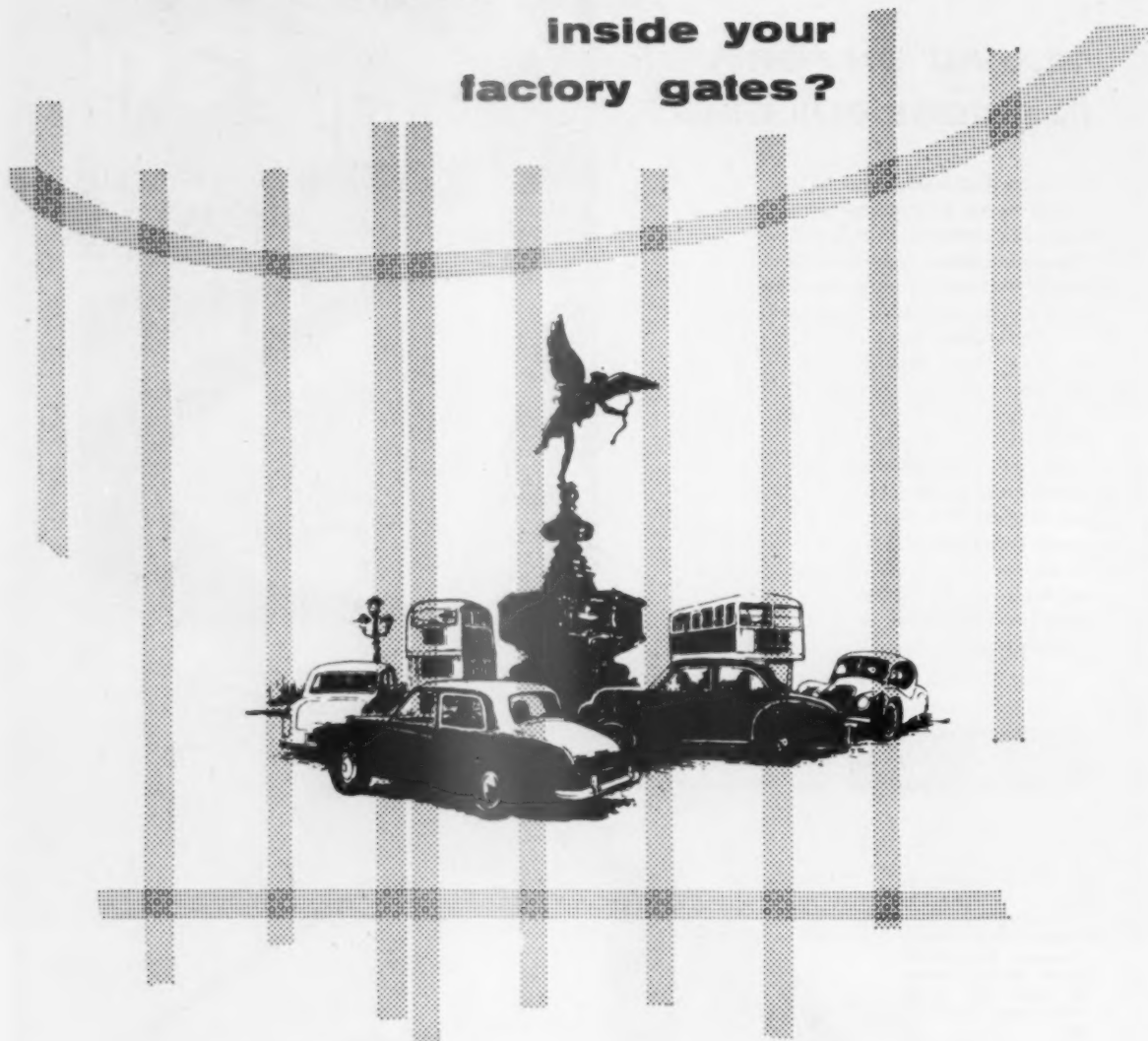
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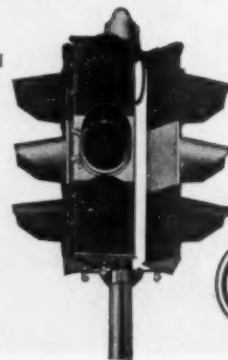
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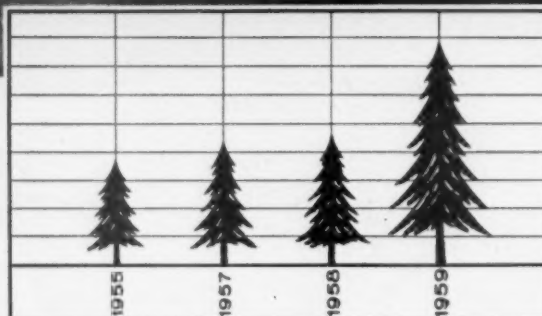
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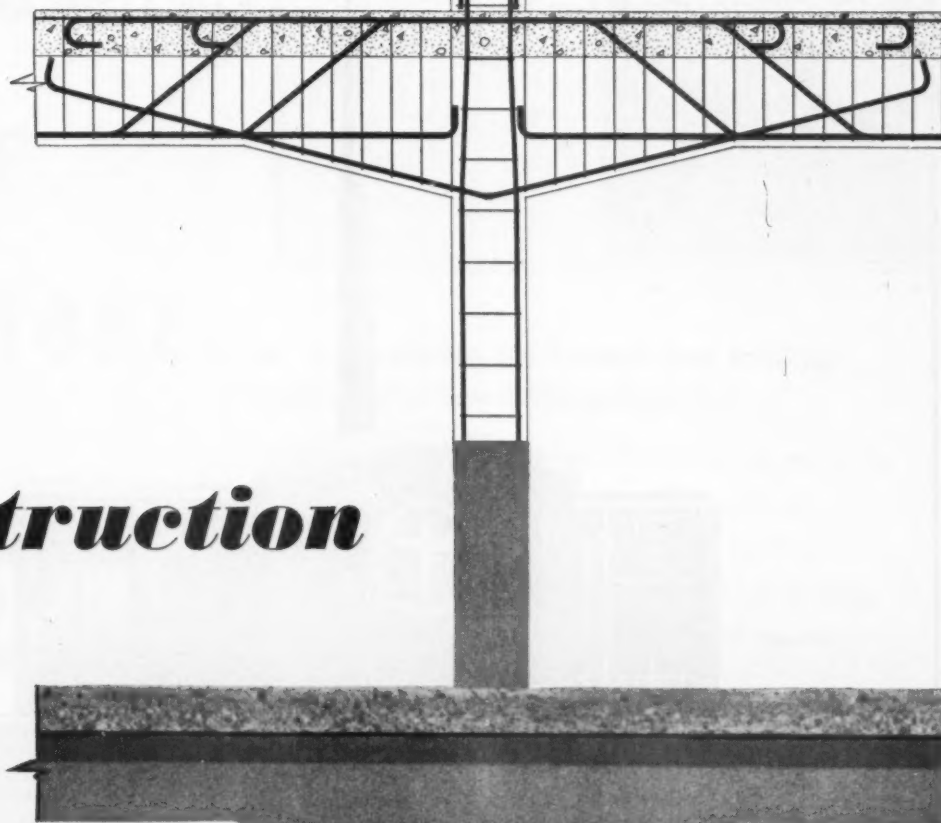
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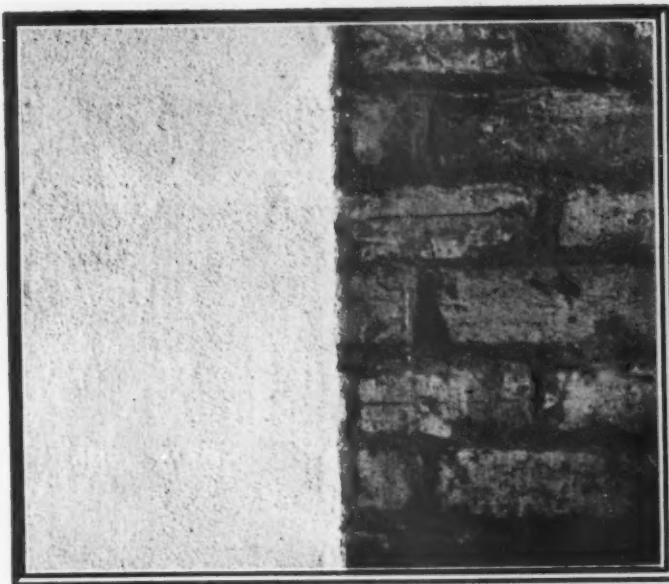
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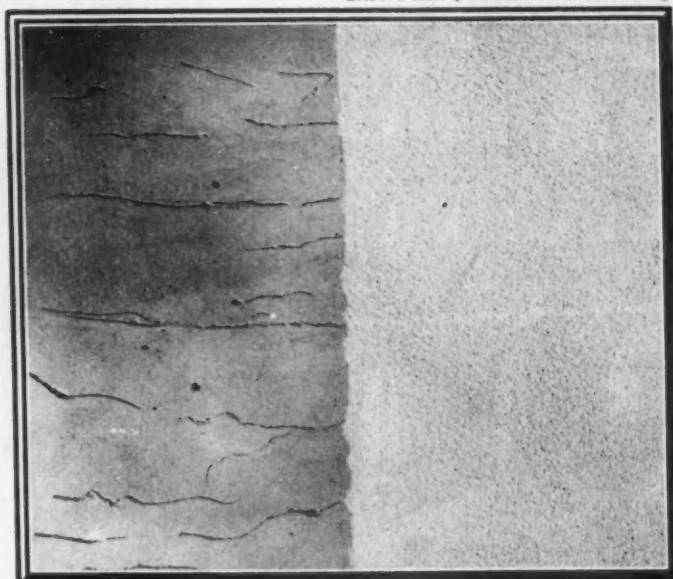
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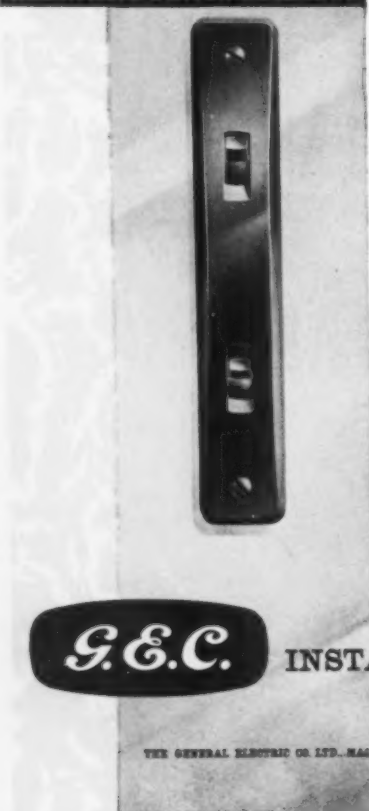
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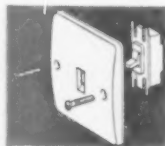
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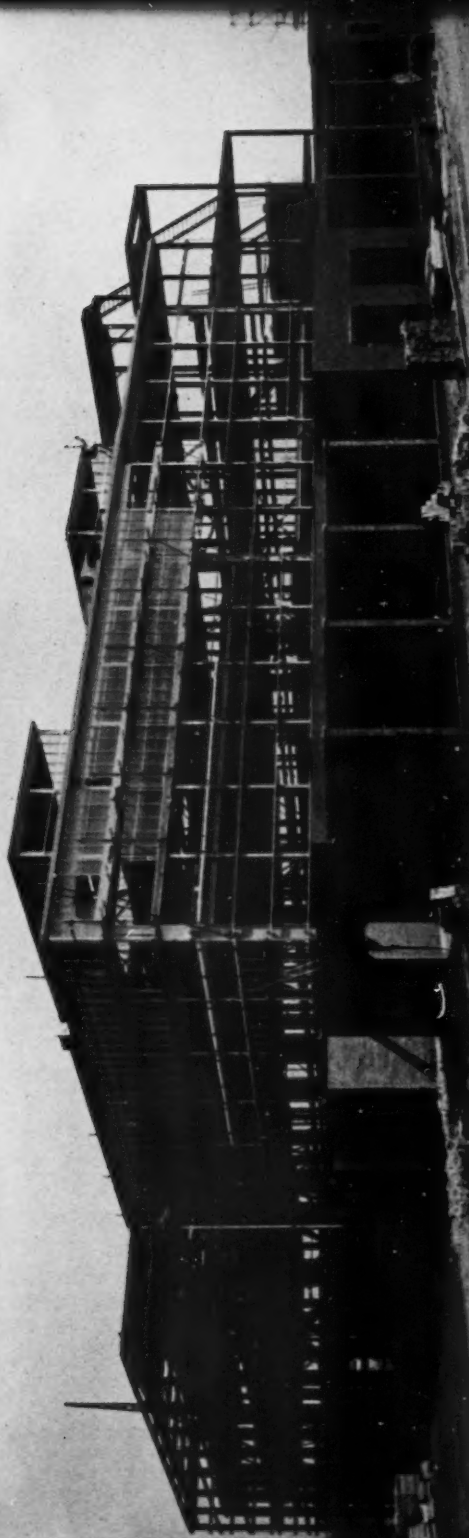
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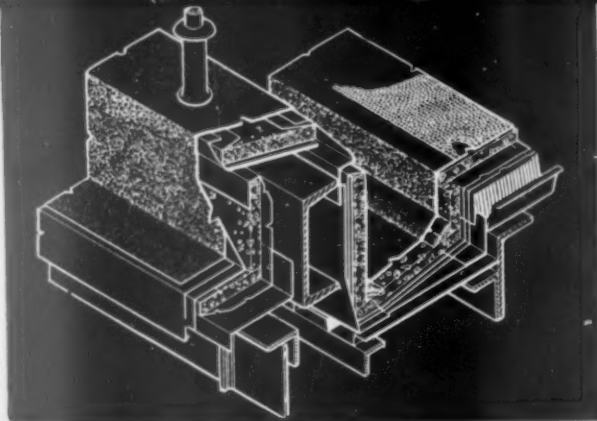
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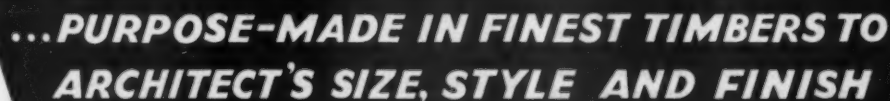
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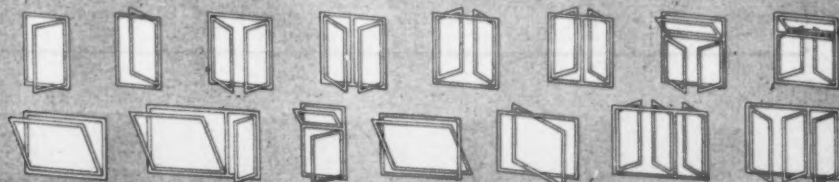
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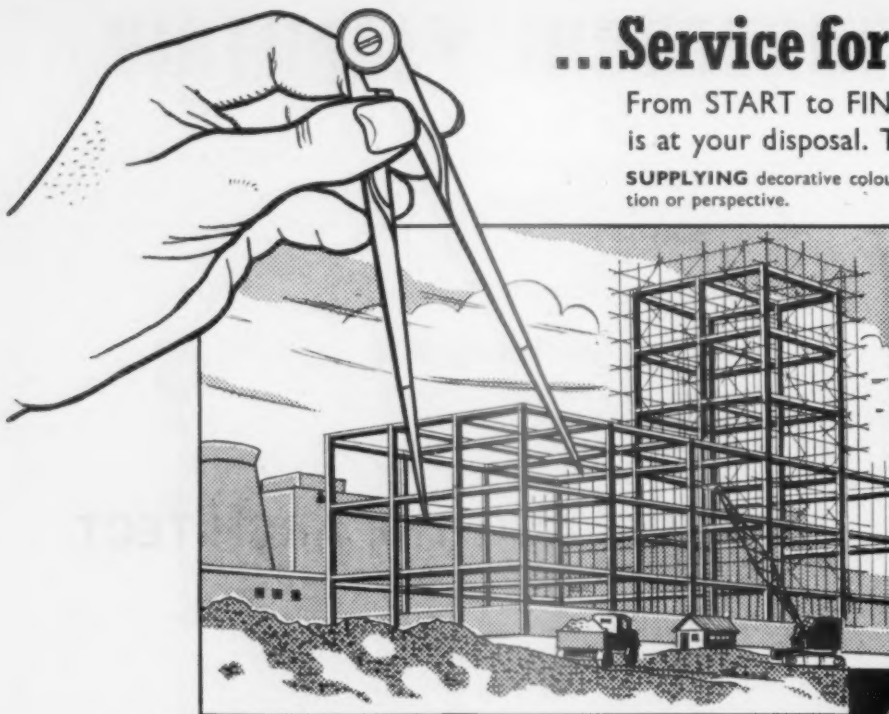
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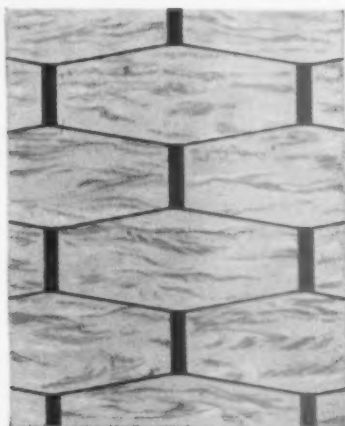
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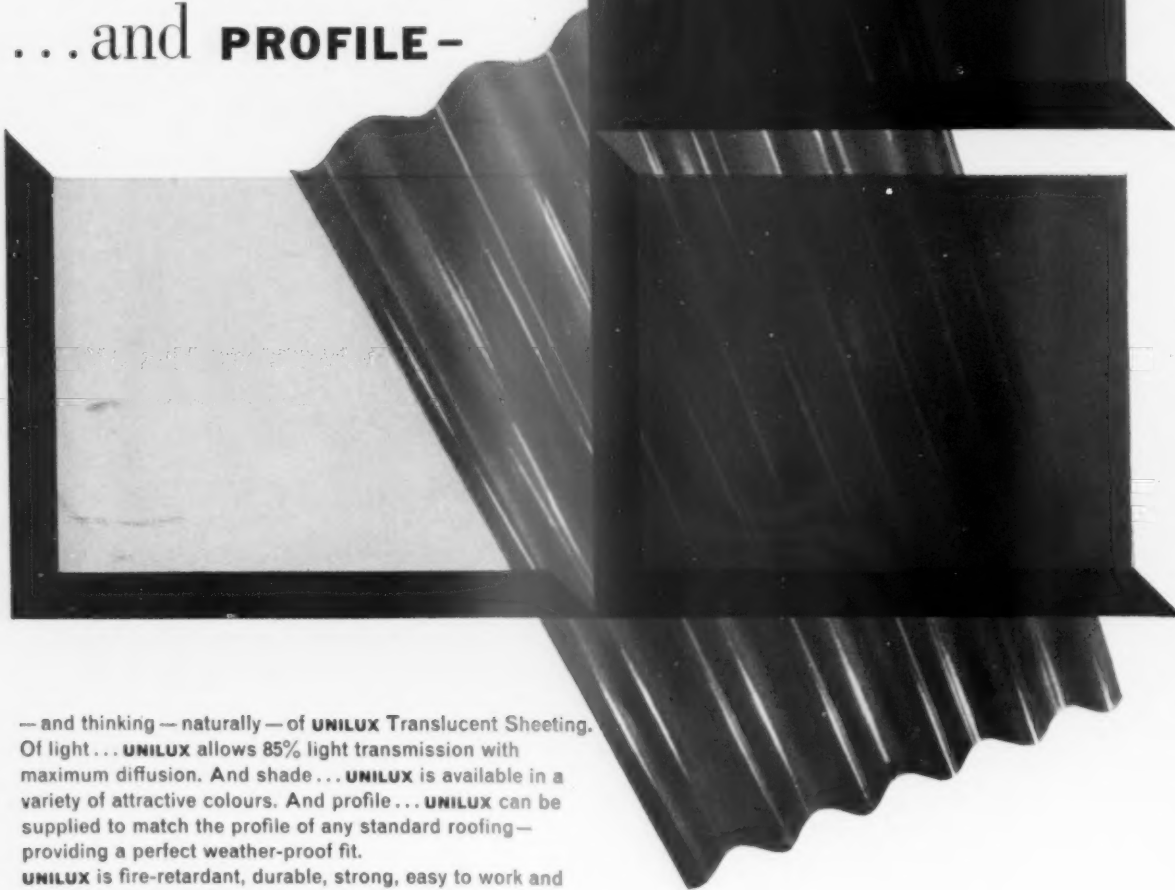
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new towns or new cities?

THE announcement that the Minister has agreed to the building of no less than three new towns is welcome. But it would be even more welcome if there were signs of more intensive action on the general policy of urban overspill.

These will be the first new towns since Cumbernauld was designated in 1956; indeed, until very recently there had been a widespread feeling that the Government had set its face against new towns as an instrument of dispersal in spite of the general lack of success of the expanded towns policy.

In the past decade there might have been more active encouragement of the reconstruction of blighted and overcrowded areas in existing towns, taking the maximum advantage of the breathing space afforded by the move out to the first batch of new towns. But, what has happened? Both the population and the number of new families have grown faster than was expected and the over-all situation is now no better than it was in 1946 when the New Towns Act was passed.

The Minister's conscience appears to be uneasy about this, as his recent circular* indicates. But is he being provided with all the facts of the situation, not only of the actual movements of population but why it is moving? Could counter magnets be provided?

Families who move south do so for many reasons; better climate, more and better-paid jobs, better housing and possibly better schools, and the lure of all the opportunities for a fuller life that can only be found in large and prosperous communities.

Apart from the climate there is nothing inevitable in all this. Cannot northern towns be as gay and alluring as any in the south, as Copenhagen has proved? Given the will and the cash is there good reason why our existing northern towns cannot be transformed? Or why entirely new cities should not be founded? The Greeks used to found a new city every few years, and the Brazilians have shown that we moderns can do the same.

On the Cover:
House by Herman Haan

* Circular No. 37/60.

Contractors' architecture

Some weeks ago I commented on the decision of Edinburgh Corporation to give building contractors the job of redeveloping the sites at present occupied by 4,000 temporary houses. The cost will be about £18 million. The reason for this decision, according to the convenor of the housing committee, Councillor Norman Smith, was that 'We felt that in these projects, which involve not only planning and building but demolition and removal of the existing houses and alteration of site levels, a contractor would be better able to do the job. The contractors will employ their own architects and surveyors'. It is unbelievable that anyone in authority, let alone the convenor of the housing committee of a great city, could be so ignorant of the true function of an architect.

The latest news is that the Edinburgh Architectural Association has asked the corporation to receive a delegation, having first appointed a special committee to investigate. Mr. Percy Johnson-Marshall, senior lecturer in the Department of Architecture, Edinburgh University, better known in London as a much-missed senior planning officer at the LCC, is already in the van of the fight. In an interview with the *Guardian* he is reported as saying that schemes costing £18 million demanded high-level thinking and planning. They would change the face of Edinburgh. Such schemes would normally go either to open competition or to a top-ranking architect. Handing the scheme to a contractor gave no guarantee that he would take professional advice on design or planning.

* * *

The *Guardian* thinks the result of this decision may well be that the RIBA will be under pressure to change the code of professional practice to allow architects to become directors of building firms. For, with an increasing number of packaged deals about, the contractor's architect can only take his proper place in the building team if he is on level terms with the builders in it. Luigi Nervi and Felix Kandela are given as examples of architect-engineer-contractors abroad.

It seems that two firms have already been invited to redevelop two of the sites in question and a short list of seven firms has been drawn up for two more sites.

Two principles are involved here. First, is it desirable for a public authority to give important development work to contractors without any guarantee of high-grade design and planning control? And, second, is it in the interest of the architectural profession that contractors cannot provide high-grade professional services from within their own organization because of the architects' present code

of professional practice? It seems likely that with modern business methods and salesmanship, the packaged deal is here to stay and grow. It will inevitably take work from architects in private practice. This, though an unpleasant fact, is nothing like so important as the threat to our towns and countryside of the packaged deal building where the architect is often merely a convenient drawing office stooge in the employment of big business. Therefore it should be made possible for the architect to take his proper place in the contracting firm, so that his skill may be correctly used in the production of good planning, architecture and building.

Which type of roof insulation?

Which? the journal of the Consumers Association this month examines, among other things—including hair colour restorers and washing machines—the question of roof insulation materials. It is comforting to note that even these experts in comparison find it difficult to pick the winners. The problem was examined from a purely do-it-yourself point of view and so will be of limited value to the industry. The results however are interesting. In value for money two brands of loose fill vermiculite come out on top. The inquirers also found vermiculite very easy to deal with. They do not say how they made it stay where it was put. The survey will be of great value to those who have to answer the public's questions on the subject. There are, however, so many factors to be considered that the dear old public will still have to make up its own mind; a thing which it hates doing above all else.

Cold progress

The 15th annual report of the Council of Industrial Design has just been published and can be bought from HMSO for half-a-crown. It is worth reading. Even allowing for the Council's natural pride, it is clear that this country is gradually finding a place on the world map of industrial design. This fact is no doubt a direct result of the steady advance in the number of firms making use of the Council's many services at home. Eight hundred inquiries were received in 1959 for industrial designers from the Council's list. This compares with about 250 in 1952. Public attendance at the Design Centre is phenomenal, averaging some 2,000 a day. The benefit of this shop window must be enormous. But as a shop window the present building is much too small. The report mentions the internal struggle between the display section and the accountant. The display boys want a more open exhibition, but the accountant wants every inch crowded with income earners. Between them, however, they maintain a surprisingly high

Guests at the RIBA Commonwealth Conference cocktail party last week. Left to right, Mr. B. I. Botha (South Africa Minister in London), Sir William Holford (president RIBA), Lady Holford and Mrs. Botha; W. W. Wood (South West Africa); W. T. Haslam (Australia), Nelson Foley (Jamaica), Hubert Bennett, Professor Robert Matthew



standard in the exhibition. Their special features, however, are not, in my opinion, always so good.

The report points out that some of the manufacturers whose goods are shown do not appreciate the true purpose of the Centre. They look on it as a shop window for selling current commercial successes, whereas the Council's aim is to win markets at home and abroad for the highest standards of imaginative design and thereby to encourage more manufacturers to improve their products.

There is always a danger that living in the rarified atmosphere of good design where everything within sight is, if not exactly lovely, at least tolerable, the Council will start to assume that the battle is won. I do not think that this is very likely, but at the same time the report is inclined to put all its emphasis on the Council's successes and makes very little reference to the great fields it has yet to conquer.

Craftsmanship triumphs over design

The current exhibition of furniture at the Building Centre is organized by the Craftsmen Furniture Makers' Association, with the help of the Rural Industries Bureau and the TDA. It was opened last week by Sir Gordon Russell. He spoke of the need to keep hand craftsmanship alive in a machine age, while ensuring that the machine produced things which were well and truly made, entirely suitable for their purpose and beautifully designed.

There would always be a demand, said Sir Gordon, for individual objects for special purposes which could not be produced economically by machine. The skilled craftsman put something into his work that the machine could not. Fine woods, not obtainable in sufficient quantities for commercial production, could be used by the individual craftsman; woods such as cherry, yewtree, laburnum and brown oak. Prototypes for machine production must still be made by hand. Without the highly skilled craftsman there would be no standard to aim at.

Sir Gordon then, in his inimitable way, gently drew the attention of those present to some of the shortcomings of the furniture exhibited. 'There are some excellent things here,' he said, 'but let us face it, not everything shown is of the highest standard. How could it be? Anyone who has a genius for design, is a superb workman, can run a one-man business and cope with customers is a very rare bird indeed. . . it is hard to satisfy conscience and earn a modest living.'

He went on to give advice to craftsmen. Here are some of his points. 'Set out concisely what the problem is and try to solve it. Don't forget to design for use and misuse—if you make a low table people will sit on it. Make your handles kind to the touch. Don't show off.

Alister Mac Donald (vice-chairman, Commonwealth Conference Committee), G. Bradley (Northern Rhodesia); E. J. Young (Nigeria); Gordon Ricketts (secretary, RIBA), N. L. Hanson (South Africa), Mrs. Ricketts, Sir Basil Spence. The conference was being held as a preliminary to a major Commonwealth conference in 1962.

We need more experiments in decoration but it must be in scale. Concentrate on the things which can be best done by hand.'

Sir Gordon was very kind about the work shown for there is a great deal of really terrible stuff. We must only hope that the furniture manufacturers do not get hold of it. There are, of course, some nice things, but it is very clear that good design and craftsmanship are rarely found in the same person. Nevertheless, almost without exception everything in the exhibition is beautifully made.

Home heating at the Design Centre

The CDD's main autumn exhibition at the Design Centre is now open. *Heating your Home* is a modest display of well-designed heating appliances. All types and fuels are represented. Simple drawings and diagrams explain the different methods of heating, and the various appliances are grouped together under these headings. The newest boilers, whether solid fuel, gas or oil-burning, are, externally at any rate, most elegant and fit to be installed in any room in the house. Electric heaters on the whole are better looking than they were, but the need to fit them with adequate guards has made some of them fussier but less dangerous. The solid fuel open fires and stoves, however, are still for the most part hideous. No doubt they work excellently but no-one has yet produced one that looks really well.

The 'Third Surveyor'

Charles Woodward, for many years Editor of the RIBA JOURNAL'S Practice Notes and a well-known lecturer on professional practice, died recently. He was a mine of information on his subject and had a nation-wide reputation. Members of the AA were particularly lucky, for he lunched there almost every day for years, and was always ready to give advice to young and old on tricky points relating to the Code. He was a quiet, peaceable man who never changed and, like all 'institutions', his death has left a gap which cannot be filled. In this particular instance, the gap is the more serious for many architects have for years been in the habit of automatically naming Mr. Woodward as the 'Third Surveyor' whenever they completed an RIBA form of contract. Now, alas, they must find another name, but many, I am sure, will begin to write 'Charles Woodward' for a long time before they remember that he has gone.

Desecration not decoration

The last sentence of this column last week should have read 'desecration of our country cannot be measured in terms of pounds'.

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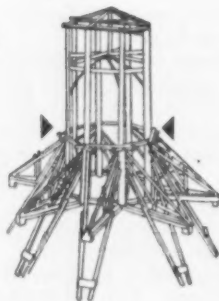


Liverpool comparisons

The Architect & Building News, 28 September 1960

Readers' letters (A & BN 37 and 38) have suggested comparisons for Frederick Gibberd's prize-winning design for Liverpool Roman Catholic Cathedral. Two are illustrated on this page

Ely Lantern

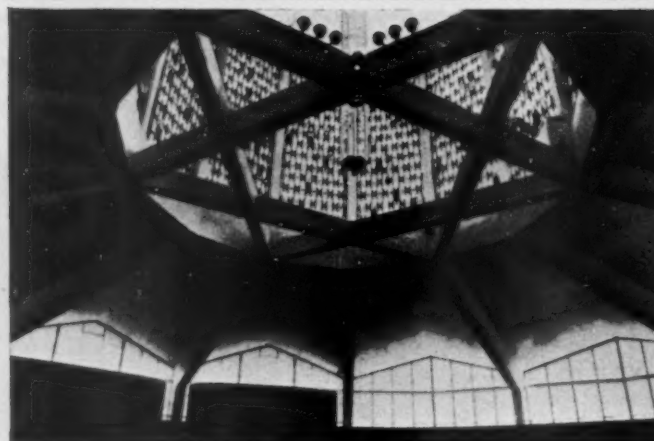
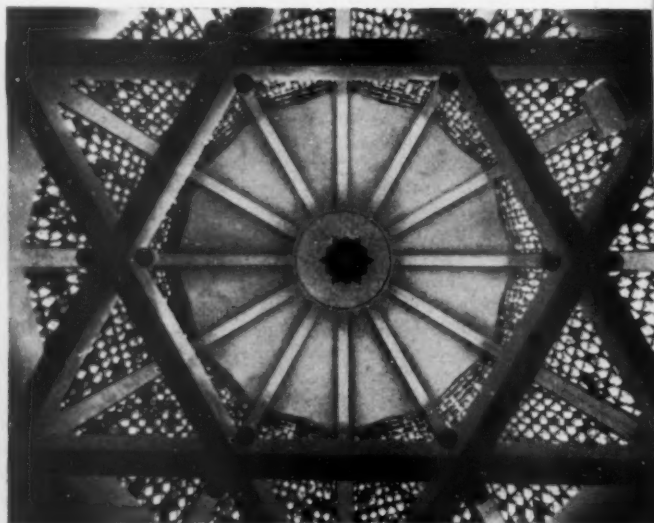
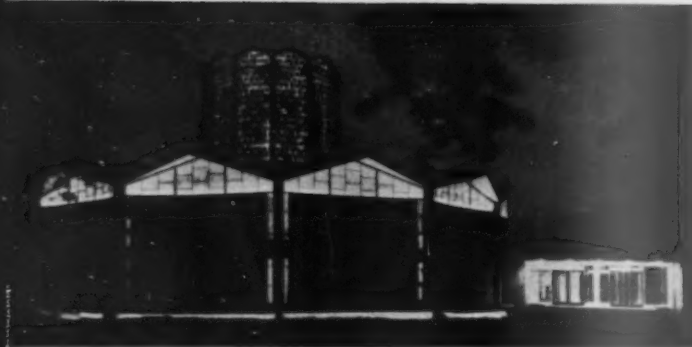
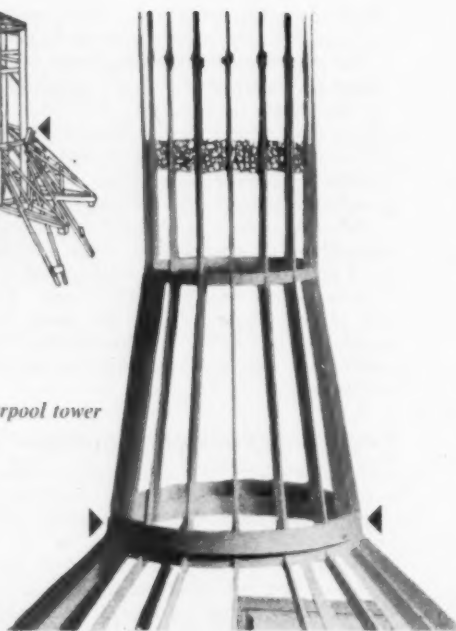


H. A. N. Brockman and Bryan Little likened the structure to the lantern tower at Ely. A scale comparison of the latter with the Liverpool model shows the Ely lantern to be about one third the size of the Liverpool tower. Measured in the position shown by the arrows in the pictures, the diameter across the Ely lantern is 30ft, and across the Gibberd structure it is 96ft. Gibberd's tower tapers to 64ft at the top, and at eaves level (or ring beam, not shown in the picture, but see cover A & BN 35) the structure spans 236ft compared with the 70ft of the Ely octagon.

Albert D. Cordiner thought the winning design resembled two smaller buildings, a synagogue and a monastic church, by Belluschi.

Below, synagogue for Temple Adath Israel, Merion, Pennsylvania. Associate architects, Pietro Belluschi and Charles Frederick Wise. The pictures are from 'Architectural Record', July 1959

Liverpool tower



The BASA conference on architectural education, held at Oxford last week, is reported here by John Smith



Hilary Chambers,
BASA's president

BALLIOL in the September rain, with builders pottering about half heartedly; the rooms musty, peeling painty, and with washbasins that take an hour to empty. Ladders and naked bulbs in a dreary hall, with food to match. The half-heard chatter of vagrants abroad in the early hours and the intermittent rumble of traffic to challenge sleep at night. A crisply dotted paper on the ceiling of the J.C.R. striking the only note of 1960. Dear, timeless, ode-inspiring Oxford; a sacrosanct and sober setting indeed for BASA to continue their debate on architectural education. And sobriety and seriousness were the keynote of proceedings which were far from being dull.

The conference, attended by 70 to 80 delegates and others interested in education, was the second in a series of three designed to culminate in the formulation and presentation of a comprehensive BASA policy statement. It was suggested that the previous conference, held at Bristol (and reported in the *A & BN*, January 20), in considering architectural education as a process of analysis, synthesis and production, had underlined basic weaknesses of analytical thoroughness and a general failure to equip the student with the right tools to use in the development of a design approach. On this occasion specific aspects of education were considered in greater detail. Prior to the conference, the range and scope of the subjects to be discussed had led several senior members of the profession attending to suspect that BASA was biting off more than it could chew, but in the event such fears were to be proved largely unfounded.

Student kick-off

To provide a link with the previous conference Andrzej Malczewski (Edinburgh University) gave a short analytical report of the Bristol discussions and recommendations. This served as a useful reminder and avoided unnecessary recapitulation later. It was clear at this early stage that the timorous approach associated with BASA a couple of years ago was now a thing of the past. 'In concerning itself with the problem of our teaching staff' Malczewski continued, 'we are convinced BASA would be touching one of the main problems of architectural education. It is a generally accepted fact that apart from a few noteworthy exceptions the quality of staff in our schools of architecture remains deplorably low—this being contributive and at least partly responsible for the cancerous apathy of the large majority of students. Such problems then, as the calibre of our instructors; their status; whether they should be part-time, full time, or a mixture of both; and should they as teachers be themselves instructed in teaching methods, are all points crying for immediate attention and ones which BASA might profitably investigate.' This was a point to be touched on by other speakers most of whom thought it was largely a question of shortage of money preventing the schools offering adequate salaries. Those who might think it presumptuous for a student organization to concern itself with such matters had better think again, for until appreciable improvements are made, it is obvious that this and other items of legitimate grievance will recur in BASA deliberations.

The educationalist's view

The first of the formal papers was given by J. H. Burrows of the Department of Extra Mural Studies of London University. His subject was the general theory and practice of education, a subject so broad in its scope that any survey in a short paper was almost bound to appear superficial. At breakneck speed he covered the ground, pausing here and there to catch his breath and hammer a particular point home. Referring to Sir Charles Snow's 'Two Worlds' and the gulf between the arts and sciences, he suggested that a more important gap occurred between the readers of the *Mirror* and the *Guardian*. Between the 'masses' and

the 'cultured' was an unbridgable gulf, communication was impossible and this was the most crushing indictment of our time.

Teachers, he felt, were born rather than made and there was undue emphasis at present on pedagogical methodology. He reminded his audience that £500 million annually were spent on advertising, an amount slightly greater than that spent on education. Colleges of advanced technology were a good idea but they were almost damned before they could start, because a diploma is *not* a degree. Small universities, quite rightly, were being expanded and new ones were to be established, but he considered the siting and location of the latter was often handled in the wrong way, Norwich providing a good example of this, where the new university is to be built outside rather than in the centre of the city. Concluding with a sound liberal flourish he demanded absolute academic freedom and complete equality of opportunity in education.

Gowan knocks the pre-fab boys

Architectural education, with emphasis on the technical aspects, was the subject of an interesting paper by James Gowan. He gave a formidable and comprehensive list of subjects that should be added to or amended in the present curriculum, if students were to be equipped to tackle adequately the technical side of their vocation. Yet in many ways his paper paradoxically had an anti-technical bias which gave it a rather academic and old-fashioned flavour. This was most noticeable in his view of mechanization which, being too inflexible, made him dislike standardization. Rubber moulds and laminated timber, these were O.K., but Meccano-like sets were to be avoided. The reaction in approach is understandable but, as Henry Swain pointed out in the subsequent discussion, increased mechanical industrialization is inevitable and presents a challenge to architects that must be faced, not shied away from. What is the second machine age anyway?

Sir Leslie Martin's vision

The last formal paper was by Sir Leslie Martin and was entitled 'An Overall View of the Architect's Training'. In Sir Leslie's absence it was read by Kenneth Campbell. Without a shadow of doubt this was the most significant single contribution to the conference and one that influenced appreciably all subsequent discussions. At the outset Sir Leslie assumed that training could mean education and that the process of architectural education 'should entail a stretching of the mind and an enlargement of experience through the exercise of intelligence and judgment in the solution of problems'; it was not just a matter of acquiring certain professional habits. He considered it was necessary to define the narrower question of what is the precise objective of training. This is the 'nettle', as it has been called, that far too few concerned with education have been prepared to grasp. Sir Leslie's answer was characteristically forthright.

First he suggested, we might look at what is being built around us. There is the contrast between the pioneering works of a few individual architects, the masterpieces of architecture in the traditional sense; and the general and rapid deterioration in every aspect of our environment in which they are obscured and overwhelmed. 'Cities which once worked no longer do so. They are destroyed by a redevelopment and expansion which adds up to nothing more than operational and visual anarchy. The technical standards by which this is achieved are in themselves completely unbalanced and, on the whole, cannot be compared with the standards which are common in many forms of mechanical equipment. In the name of one human need—for instance, mobility—we unquestionably accept the destruction of half-a-dozen others.' The most urgent archi-

tectural task was the complete re-ordering of our environment. It was for this task that we should be educating architects.

It was Sir Leslie's opinion that the present educational system has tended to aim to produce an abstraction—The Architect—a veritable paragon who cannot exist. "On the whole," he continued, "it is accepted that the architect is primarily concerned with design but since we have laid stress exclusively on monuments and pioneers we have laid a particular stress on originality—on being 'different'. Our courses are often built around this cult of design originality. Lectures in history stress it; construction has to be exciting; other courses are loosely and somewhat irrelevantly arranged around it."

He felt that this approach should be questioned as the definition of the objective was too vague and because 'although this system of education has been widely developed in Europe and the USA it is doubtful whether the number of architects of genius has appreciably increased. Let us say at once that real genius will look after itself'. The present system tended to lead everyone to want to be different from the next man, often just for the sake of being different; there was a frantic search for new forms.

In a compelling passage he asserted, "This is no way to tackle the most pressing architectural problem of our time. As a society we have lost the power to control the form of our environment. The task ahead of the architect is not that of being different; it is to see how that power can be regained. This is a matter of seeing clearly the job of work that we have to tackle *together as architects*. The first need is a clear statement of the problems to be solved. It is necessary to define what has to be done before we can say what form training should take. The purpose of training is to develop the diversified talents which are necessary to solve known problems—and in the process of doing this to give the student the ability to act. What I am suggesting is that education should be directed towards a more concrete end. That end should not be an abstraction—such as the ideal concept of 'The Architect'—but the common solution of that problem in which all architects should feel themselves vitally involved. The student must feel himself equally involved if his education is to have any purpose or meaning."

He went on to suggest how this might be done, underlining once again the object of education as being the study of the form of our environment. He saw post-graduate research providing an operational framework for clarifying the issues involved. 'Post-graduate research on the problem of urban environment on an extensive scale is not only an urgent national need; it is equally urgent as an essential means of forging the tool of education itself. For if it is organized in a certain way it is through post-graduate research that a course orientated towards a realistic end might be given its backbone.' Students in the school would work on realistic projects, the research for which was being carried out at the proper level. The whole progression of the course would be a reflection of the true design process.

Sir Leslie concluded his paper by suggesting that 'it does not seem out of the question, by concentration on main issues, to reduce the normal duration of a course to a broad grounding in three years with a further year for advanced study'. He considered that although there might be a common aim, that in itself did not prevent differences of emphasis between the various types of school.

This eloquent paper conjured up a vision of the schools playing a new and stimulating role within the social fabric. The cobwebs were blown away in a single mighty puff. Unfortunately, immediate discussion was marred by constant reference from speakers to the single flaw in Sir Leslie's paper. Quoting Colin St. John Wilson at the Bristol conference he had likened the training of an architect to that of a jungle fighter; the analogy was fatal and was pursued remorselessly. Later, during the evening discussions, the impact of the paper was felt more keenly. The writing was on the wall, the vast army which includes architects may have officers at last. The cynic will suggest that for Cambridge read Sandhurst and hurrah for the two-tiered profession. After all, somebody will have to learn

the more mundane items in James Gowan's exhaustive catalogue. And genius can look after itself!

Conclusions

There followed a detailed and interesting history of architectural education by Rodney Mace (Regent Street Polytechnic) and Michael Cassidy (Bartlett). The field has rarely been explored so thoroughly before and the results of this research are well worth preserving. Perhaps BASA will publish this history in pamphlet form.

The rest of the conference was devoted to group discussions and routine BASA business. There were six discussion groups each of which dealt with education in relation to a specific subject. Each was given a short prepared paper or papers to serve as a basis for its report. These were as follows:—

TRENDS IN ARCHITECTURAL PRACTICE, by Kenneth Campbell.

TRENDS IN THE BUILDING INDUSTRY, by Bruce Martin.

THE ARCHITECT'S RESPONSIBILITIES, by Ruth Glass.

WIDER ASPECTS OF EDUCATION, by Tony Monk (Bartlett) and Chris Musson (Cardiff).

EXAMINATIONS, by Jeremy Mackay-Lewis and Ken Shone and Norman Adams (Leicester).

TEACHING METHODS, by Paul Ritter and H. D. L. Williams.

The discussions were long and vigorous and almost without exception lasted into the early hours of the morning; beer and coffee being dispensed in toothglasses. At the end of the conference a report from each group was read and submitted to the BASA Executive for further action. The formula seemed to work admirably; the reports were suitably concise and lucid (the time to prepare them being terrifyingly short); and a BASA policy on education came six paces nearer.

Perhaps the most potentially controversial of these reports was that of the group concerned with teaching methods. Here freedom-peddling Paul Ritter of Nottingham had a veritable field-day. His suggestions, not so new and shocking really, nevertheless made one or two student eyebrows hit the ceiling. His proposals included the following curricula charges:—

OUT: Standardized, synchronized programmes, competition.
IN: Work geared to individual's vital interests and capacity; co-operation.

OUT: Standardized lectures attempting to cover the whole field of architecture.

IN: Selective lecturing born of request and interest; reading with continual discussion in seminars.

OUT: First year introduction with drawing technique exercise.

IN: First year given maximum freedom and time to orientate, think, get to know staff, students and school; attend any lectures; attended to by all staff.

OUT: Allocation of tutors.

IN: Student choice of tutor.

OUT: Division into year.

IN: Mixed groups under tutors.

OUT: Concept, and fear of 'fail'.

IN: Extra years where desirable and functional as part of course.

OUT: Judging by finished sheets.

IN: Assess whole working process.

OUT: Memory exams of all subjects.

IN: Elimination through lack of initiative or suitability in whole work.

All these were included in his group's report. Optimistically it was suggested that 'this is an idea which can begin to grow within the existing framework, where and when the opportunity allows'. There was, it seemed, 'the possibility of transformation without revolution'. How this was to be achieved was not specified. Somebody once said that the old deadbeats needed to be flushed out of our schools. They will go in time, of course, but the schools, like the basins at Balliol, empty slowly.

The conference was a great success. Needless to say that apart from a few local students, the Oxford school and the local Allied Society appeared disinterested. This was a pity for they might have learnt something.

Will architecture survive?

Speaking at the annual conference of the Association of Municipal Corporations at Eastbourne last week, Sir William Holford, RIBA president, said that 'in occasional dark moments of despair I wonder whether architecture itself will survive the battle for its life which is being waged in this generation and the next'.

'I do not refer to building nor to building development, as it is called these days,' he went on, 'but to architecture that lifts the heart and delights the eye.'

'During the last 10 years a good deal of initiative has shifted from local authorities to private enterprise—not so much to the big landlord and owner-occupier but to the developer and promoter. I admire his enterprise, his ability, his sense of showmanship, whether he is Mr. Cotton or Mr. Clore. You will not be surprised, however, to learn that I do not up to now, admire the final results of their complicated negotiations, at least in terms of design and external appearances in our cities.'

'Speculative development without benefit of architecture is likely to result in a cheapening of the whole quality of urban life, whether it takes place on a suburban housing estate or in Piccadilly.'

Sir William continued: 'In the matter of competition by tender we have made some preliminary recommendations to overcome what is fast becoming, from our professional standpoint, a disastrous state of affairs. We have suggested that a much clearer distinction should be drawn between the duty of the public authority and the legitimate business interests of private development.' Some of the professional skill used or abused in competition by tender might be put directly at the service of the communities who badly needed imaginative redevelopment combined with traffic improvements in central areas. (See leader, February 17).

A feature of the conference was the delegates' outspoken criticism of modern architecture. Architects were accused of being unable to draw curves, of creating egg crates with windows and of conforming to a pattern of new and unimposing building styles.

Councillor E. James, of Guildford, attacked the 'dreadful conformity' of main shopping streets. He said the only difference between one commercial centre and another was the position of the multiple stores.

The Mayor of Luton, Alderman J. Couldwell, said modern architecture's only legacy would be 'concrete and steel in squares'. Schools and other modern buildings all looked alike and were monuments to the dismal failure of modern architects.

Delegates also complained that modern buildings were more costly to maintain.

Replying, Sir William Holford said some of the new buildings in steel or concrete were works of art, and it

should not be forgotten that many office blocks, for example, were 'designed by accountants and not architects'. Referring to the squared-off look of so many modern buildings, he reminded delegates of the shape of beds, tables, chairs and rugs. High maintenance costs were inevitable, he said, when architects were forced to design buildings on a low-cost scale. Government departments should estimate the cost of a building as its capital cost plus maintenance over a 60-year period.

Traffic rise greater than expected

If the present trend continues, national estimates of future traffic will need drastic upward revision, warns the Road Research Board in its report for 1959, published last week.

The report shows that traffic increased at an average rate of 7 per cent between 1951 and 1958, but last year went up by 12 per cent, thereby, it is pointed out, making the problem of coping with existing traffic and providing for its future increase even more urgent than the Board foresaw in 1954.

Figures about London traffic show that the rate of growth is greater at night than during the day. From 1953-58 traffic between 9 a.m. and 5 p.m. rose by 28 per cent, but traffic between 1 a.m. and 6 a.m. increased by 100 per cent.

They also show that the number of commercial vehicles continues to increase; that the number of buses and taxis continues to fall; and that private vehicles have increased so rapidly that in 1958 (the year of the survey) they represented the largest single class. The average journey time, under peak-hour conditions, was 7.3 min a mile, of which 3.3 (or 45 per cent) was spent waiting or queueing at controlled intersections.

In a normal week 60 per cent of road travel in Greater London was in buses, 22 per cent in private cars, 10 per cent by bicycle, and the remaining 8 per cent by coach, taxi or motor cycle.

Most crowded roads in world

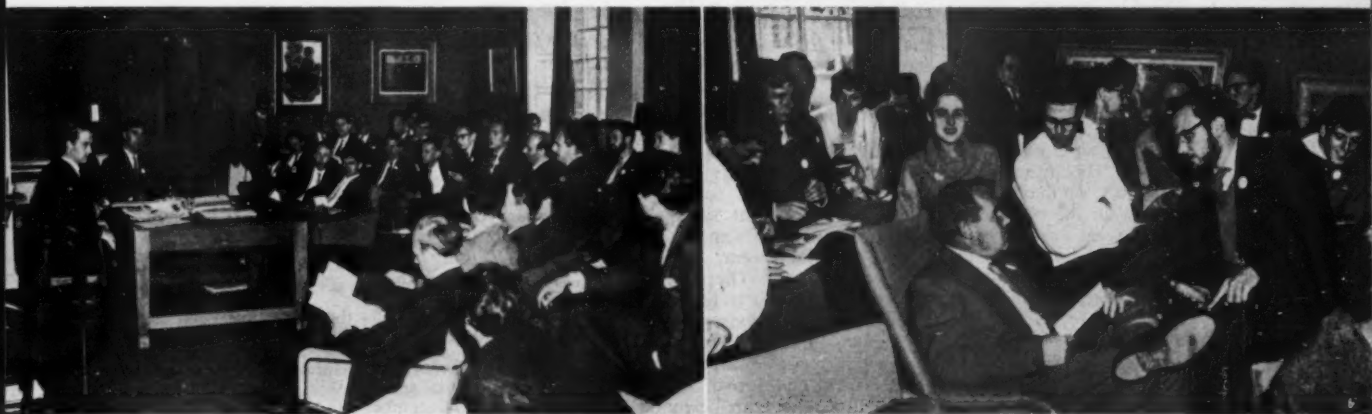
That our roads continue to be the most crowded in the world is one of the hundreds of facts in the 1960 edition of *Basic Road Statistics*, published by the British Road Federation.

On the most recent count, we have 30.9 vehicles per mile of road—3.3 more than West Germany and 10.6 more than the United States. These figures cover four-, or more, wheeled vehicles only. Add motor cycles and others and the British figure jumps to 44.8; that is, one for every 40yd of road, street and country lane.

Latest confirmed figures of Government expenditure on the road programme are those for 1958-59: £47.1 million was actually spent, although the Civil Estimate vote by Parliament that year was for £52.9 million. It is estimated

continued overleaf

BASA at Balliol: members of the conference meet for discussion. Left, Hilary Chambers in the Chair



that by March, 1961, the value of work in progress on road modernization schemes started but not completed will be £169,779,000.

Among other points are these:

(a) New vehicle registrations soared in 1959 to the highest-ever total of 1,250,000—two a minute throughout the year.

(b) Total cost of road accidents to the community rose by £29 million to £219 million in 1959.

(c) Britain's roads are the responsibility, one way or another, of no less than 1,285 separate highway authorities.

The 1960 edition of *Basic Road Statistics* is available from British Road Federation, 26 Manchester Square, London, W.1, price 1s, plus 5d postage.

New moves by Edinburgh architects

There is to be no let-up in Edinburgh Architectural Association's campaign against the corporation's decision to give building contractors the job of redeveloping the city's prefabricated sites—some 4,000 prefabs are scheduled for replacement in the next few years by 9,000 homes at a cost of about £18 million (see A & BN, August 17).

An invitation has been made to James Miller and Partners to develop a site at Longstone; George Wimpey & Co. have been chosen for a Muirhouse scheme, and seven other contractors have been short-listed for two other sites at Ferniehall and Niddrie Marischal.

The Edinburgh association has set up a special committee to investigate the position and proposes to ask the corporation to receive a deputation.

Mr. Percy Johnson-Marshall, senior lecturer, Department of Architecture, Edinburgh University, who first raised the matter, is quoted by the *Manchester Guardian* as saying: 'There is no guarantee that the contractors will use architects, or architects of first rank. Schemes costing £18 million demand high-level thinking and planning. You are going to change the face of Edinburgh and could either make or mar the city. The schemes must be of architectural quality. Such schemes would normally go to one of Britain's top architects or at least be open to competition. When you hand them out to a builder you don't get any guarantee that he is taking professional advice on design or planning.'

The corporation claims that the architectural safeguards are there, because the schemes must be approved by the city architect and Department of Health for Scotland (see ABNER, page 386).

Rise in improvement grants

Four times as many house improvement grants are being made now as in 1958, and the improvement of whole areas has begun. This was announced by Mr. Henry Brooke, Minister of Housing and Local Government, when he opened an exhibition to inaugurate a 'Better Homes Week' in Leeds and a demonstration scheme of house improvements.

The Minister said that much of the increase was due to the introduction of standard grants, but the changes made last year had also stimulated a large amount of work.

'The figures for all grant-aided improvements tell their own story,' he said. 'Up to the end of 1958 the number of improvement grants made had stayed at about 35,000 a year and had failed to increase beyond that. The new provisions came into force in the middle of 1959. That year the number rose to nearly 80,000. This year I hoped that the figure would be 120,000. Now I believe it is going to be 135,000. This upward trend is most encouraging. By the 1959 Act we have achieved something like a four-fold increase in the pace of grant-aided improvement work.'

'But good though this is, I am not content. I want to see grant-aided improvements surpass 200,000 a year. If they reach 250,000, that will please me still more. There is an immense amount of this improvement work yet to be done. There are up to 3,000,000 structurally-sound houses which in varying degrees need improvement and are capable of it. They form a large and valuable part of our total stock of houses which we cannot afford to pull down or to neglect. If only they are taken in time, they can be made

to provide good modern homes for another generation or more. This is one of the major challenges. Meeting it is one of the great housing tasks over the next 10 years.'

Pointing out that in Leeds the council had set out to secure the improvement of whole streets and areas by defining 'improvement' and 'conversion' areas in which a concentrated effort of modernization is then made, the Minister said: 'The aim has been not only to get the houses modernized and made good to live in, but to give a new look and tone to the whole neighbourhood. I am sure that the idea of getting improvements and conversions carried out on an area basis is sound. I would like all housing authorities in towns and cities to turn their mind to it. It offers, I believe, a field of useful collaboration between local authorities and owners. For improvement and conversion by areas is not only good housing policy, it is also good economics.'

Architecture of new theatres

What kind of theatre should be built today—the flexible theatre, the arena theatre, the theatre-in-the-round? A strong case was made out for the third alternative at a

diary

This week

The Faculty of Architects and Surveyors

September 29 at 2.30 p.m. Meeting of the executive council. At 68 Gloucester Place, London, W.1.

Victoria and Albert Museum

Now until October 1. Exhibition of drawings and etchings, by Giambattista Tiepolo (1696-1770), in rooms 70-73.

BBC Network Three

October 4, 7.30 p.m. 'Building Matters', with Charles Crichton, the builder; Gontran Goulden, Deputy Director of the Building Centre; Lawrence Brady, technical director of a large company manufacturing building materials; and Andrew Roberts, the quantity surveyor. Subject: Getting the facts across.

Brixton School of Building

Evening course of management studies to the new part II final examination syllabus of the Institute of Builders. Monday, Tuesday and Thursday, starting October 3.

Coming events

Society for the Protection of Ancient Buildings

October 10-15. Course on 'The repair of ancient buildings'. At 55 Great Ormond Street, London, W.C.1.

Royal Society of Health

October 12 at 2.30 p.m. Discussion on 'Minimum housing standards'. At 90 Buckingham Palace Road, London, S.W.1.

Kingston Area Productivity Association

October 18. Afternoon and evening conference, Ewell Technical College, under the theme 'Method in Building'.

Competitions reminder

Balch-Essex Prize offered by the RICS. Amended closing date: November 30 (news, A & BN, June 15).

The Star Competition (redevelopment of Piccadilly Circus). Students intending to enter should inform *The Star* by October 3. Closing date: December 19 (news, A & BN, August 24).

conference on the architecture of new theatres at the Institute of Advanced Architectural Studies in York.

Theatre-in-the-round—a term first coined by J. B. Priestley—means that the actors are completely surrounded by their audience. It is claimed that this arrangement sets up a new and vital relationship between actor and audience, and theatre history was called to witness that this was indeed the arrangement for dramatic performances until the appearance of the Renaissance framed stage, with its scenery in perspective.

J. L. Hodgkinson, Drama Director of the Arts Council, sketched in the present position of diminishing commercial companies and expanding repertory. Peter Moro described his scheme for Nottingham, with its dual-purpose auditorium for picture-frame and arena stages, while Elidir Davies told the story of the Mermaid Theatre, where the open-end stage seats the audience on both sides of the performers. Dr. Richard Southern described in fascinating detail the historic forms of non-picture-frame theatre, from medieval mummers to the present movement, with glimpses in passing of the many traditional theatres of the East. This was followed by Richard Leacroft, just back from America with many interesting slides including Frank Lloyd Wright's theatre at Dallas, Texas, the arena theatre at Stratford, Ontario, the geodesic dome at Fort Worth, and more besides. Stephen Joseph was sufficiently recovered from influenza to give a spirited exposition of his views, stressing the æsthetic, dramatic and economic advantages of theatre-in-the-round, which he directs in the Library Theatre, Scarborough.

Elidir Davies spoke on the cost of new theatres, contrasting parsimony in this country on the part of local authorities (the new clients for theatre buildings) with generosity in Germany and lavishness in America; D. G. Barron spoke on the problem of school halls, with their multiple uses; C. Walter Hodges gave a vivid description of the Elizabethan stage; and Alfred Emmet a talk on the new Questors Theatre in Ealing—a flexible design. The conference closed with *Requirements for public safety* by Edwin Williams, in which the dangers of panic and fire were eloquently described, along with the organization for dealing with them.

£1 million scheme for Swindon

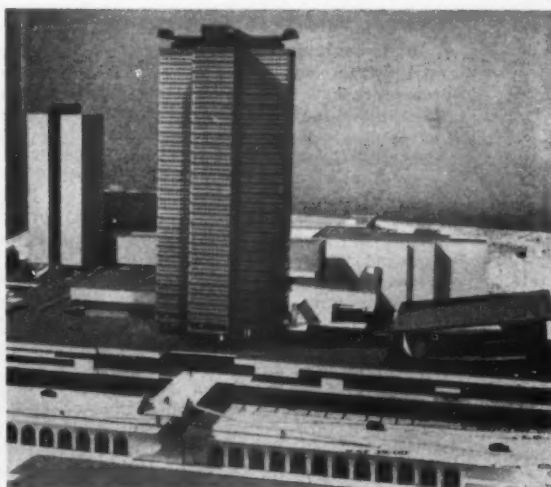
Work on a £1 million project for a new traffic-free shopping precinct on a site near the centre of Swindon is expected to begin within the next two or three months and may take as long as three years to complete. Three supermarkets, a large departmental store with office block above, a licensed hotel to include both a ballroom and banqueting rooms, as well as 28 shops are included in the scheme, which is being carried out by Oddenino's Property and Investment Company Ltd., on a 99-year lease from Swindon Corporation.

Messrs. Shingler and Risdon have prepared the layout plans and the corporation has retained Frederick Gibberd as consultant architect-planner.

Brighton's problem

As reported last week (A & BN, p. 360) Sir Hugh Casson has been appointed as architectural consultant to Brighton Corporation. Sir Hugh told the A & BN that he had two main tasks: first, to recommend certain guiding principles for the redevelopment of the seafront and central areas; and second, to examine three existing schemes, submitted by private developers, for an 11-acre site along the seafront between Grenville Place and King's Road. His report, he said, would be prepared in association with the corporation's technical officers—the borough engineer and planning officer.

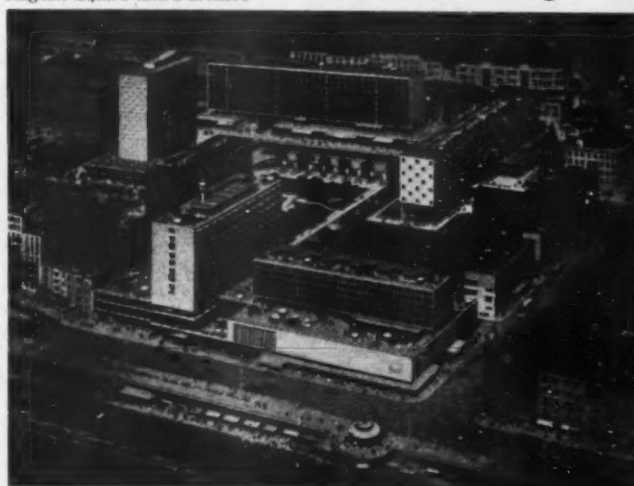
The three existing schemes are illustrated on this page with the names of the architects. The developers concerned are: 1, The Taylor Woodrow Group; 2, Copthall Holdings Ltd.; 3, Bernard Sunley Investment Trust Ltd.



Three projects for an 11-acre site on the seafront at Brighton (see story this page). Architects are:

1. Russell Diplock Associates
2. Alister MacDonald and Partners
3. Guy Morgan and Partners in association with Raglan Squire and Partners

2



3

Three new towns?

As briefly announced last week, the Minister of Housing and Local Government is considering the establishment of three more new towns. He has approved a plan for one at North Killingworth, five miles north of Newcastle, and is to consider schemes for further ones at Skelmersdale, Lancs, and Dawley, Shropshire. The Skelmersdale proposal is an old one which the Ministry has approved after hesitating for 10 years. It will take overspill from Liverpool and Merseyside. Its proposed size is not stated, but local opinion suggests that Liverpool alone could provide at least 200,000 people.

Dawley, in Shropshire, is tentatively suggested as a possible site to take overspill from Birmingham and the West Midlands. Here again the overspill from Birmingham in the next 20 years may well be of the order of 200,000.

The third new town at North Killingworth, in Northumberland, is much smaller, with a proposed population of 17,000. The site has been approved after a public inquiry.

It is to be hoped that the lessons of the first batch of new towns and of Cumbernauld have been fully digested and that these Mark III new towns will be really urban in their layout and detailed design. Perhaps too, now that the ice has been broken, the LCC will take fresh heart and reconsider Hook?

The Midlands New Towns Society has welcomed reports that the Minister is becoming receptive to the idea of new towns in the West Midlands and has suggested that three points should be observed in deciding their location:

1. To attract industrialists, new towns must be under 40 miles from an industrial centre; but to avoid eventual coalescence and cross-commuting of employees, they should be created well away from the industrial masses which lie on the London-Liverpool axis.

2. Although the best agricultural land must clearly be avoided, it has been found that land which is totally unsuitable for agriculture is also unsuitable for human habitation.

3. A new town gets the best start if it is built on a small community. The doubling or trebling of a fair-sized town is more likely to create friction between the old and new inhabitants.

The society is against the idea of asking exporting cities to build their own new towns, as an unproductive expenditure on goods and services for many years would be needed before people and jobs could move. The only suitable machinery for large-scale schemes was the well-tried development corporation.

Three other new towns report progress

In a progress report for the year ended March 31, 1960, Cumbernauld Development Corporation states that the conception of Cumbernauld as a close-knit, high-density, compact, urban development had not only created much enthusiastic interest and comment, but had, not unnaturally, made it necessary for the corporation to amplify and explain the application of this conception to the designated area.

This had entailed a certain amount of initial delay which might not have been encountered if the basic proposals had involved less departure from preconceived ideas held in certain quarters as to the form of planning which might have been adopted.

On the other hand, the year had seen a definite start in the build-up of the town—the beginning of the intake of overspill tenants from Glasgow and a welcome quickening of the industrial tempo.

East Kilbride reports that, with the improvement in the general economic position which took place during 1959, the amount of interest shown by industrialists in the town had grown. Perhaps, too, the mounting pressure on industry affected by redevelopment in Glasgow had helped in this desirable turn of events. One of the corporation's main concerns was that sufficient employment should be provided for boys leaving school in the years ahead, when

their number would greatly exceed those in an established town of comparable population.

Siting of government and commercial offices in East Kilbride was required to provide adequate choice of employment. The corporation was in touch with government departments on this question, and had emphasized that, as in the case of industry, decentralization of offices to the new town would bring many benefits and would, in the long run, prove inevitable.

The corporation was anxious to see the amenities of the town improved. Expansion of the central shopping area, the provision of some places of entertainment and the building of community centres were the three most urgent requirements in this field.

Glenrothes has reached a half-way stage in its overall planning, states the development corporation in its report, and now has a well-knit and civic-minded community. The present pattern of employment in the town is said to be already varied and interesting, and these qualities are expected to remain in evidence and to make a valuable contribution to the problems of Glasgow overspill.

The cost of wasted minutes

Addressing the annual conference of the National Federation of Master Painters and Decorators of England and Wales, Councillor T. Holmes, the federation's president, said far too many operatives had no conception of the cost of wasted minutes. If every man in the building and civil engineering industries wasted or lost 10 minutes' work each day for the working year, the cost would be something like £18 million a year.

Office block banned

In rejecting a proposal to build a 19-storey office block over a reconstructed West Brompton underground station, Mr. Henry Brooke, Minister of Housing and Local Government commented: 'Congestion is at the root of almost all of London's traffic problems, and it is the large number of offices and office workers which constitutes the greatest single cause of congestion. To grant permission would be contrary to the policy of seeking to reduce the number of offices and workers in the county of London.'

The plan for the block, which would accommodate 950 people, was submitted by Union General Properties Ltd. It was opposed by the LCC as the site was not allocated for office development in the County of London Plan.

Mr. V. H. Loney, the Ministry inspector who heard the company's appeal against the LCC's refusal of planning permission, had recommended that the appeal be allowed, however, on the ground that office accommodation on the site would help to ease congestion in the centre of the city by providing work for persons who now travelled to the central area.

Offices opened

Meldrum House, in Drumsheugh Gardens, Edinburgh, one of the biggest of Scotland's most recently constructed office buildings, was officially opened last week. The offices, which have nine storeys and provide about 48,000 sq ft of accommodation, will be occupied by Government departments. They cost about £250,000 to erect.

The honey-coloured cladding of the building tones with the surroundings and dark green Italian marble has been used at either side of the main entrance. Architects: Rowand Anderson, Kininmonth and Paul.

Professional announcement

The firm of Brown, Saunders & Grime, Architects and Surveyors, has been established in Guernsey. The partners are: A. E. Brown, ARIBA, John H. Saunders, LRIBA, FRSA, and W. H. Grime, LMIAA. The practice is being conducted from Hotel de France, La Plaiderie, St. Peter Port, Guernsey, C.I. Tel. Central 2087.

The firm is associated with Saunders & Grime, Jersey, C.I., and W. H. Saunders & Son, of Southampton, London, Portsmouth, Coventry and Gosport.

houses by Herman Haan

The Architect & Building News, 28 September 1960 395



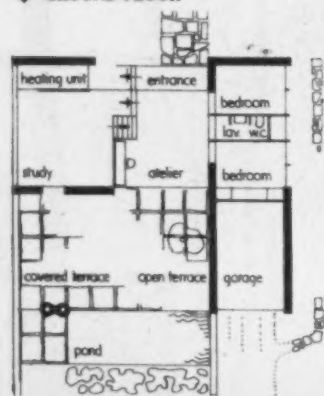
Photos: Jan Versnel



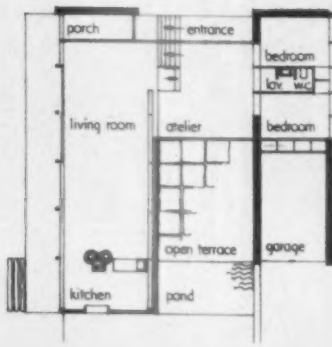
The work of Herman Haan is little known outside Holland. Even in Holland, his prowess as an explorer and archaeologist—he has made more than a dozen visits to the Sahara—is perhaps better known than his work as an architect. Since 1945 he has built a number of private houses, some of these are featured in this issue, and other work including a students' club in Rotterdam which is not illustrated. His domestic work is up to the standard of the best in Holland. It shows a concern for neatness and precision that we in this country particularly associate with the Dutch. The striking features to an Englishman is the way the area of the houses is kept to a minimum whilst, at the same time, giving privacy in the bedrooms and the appearance of openness and bigness in the living rooms. There is illustrated on this page a house he built at Huisen

The architect's own house in Rotterdam. The site is to the east of the city and is near to a park. The living room runs North-South across the site and is connected to the bedrooms and garage which lie with the same orientation but at a lower level. Construction is concrete frame on piles with glass and asbestos sheet infillings

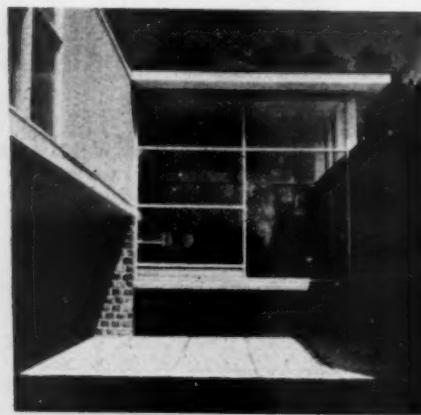
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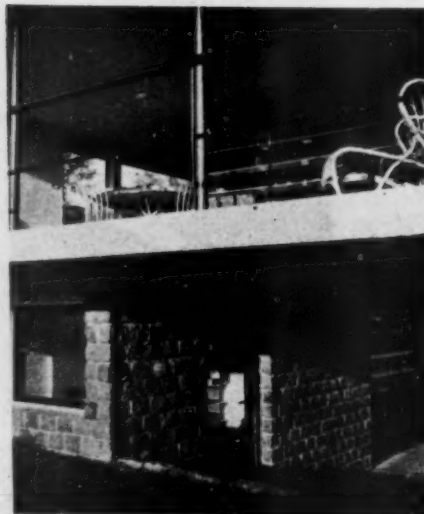
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Photos: V. Cornelius



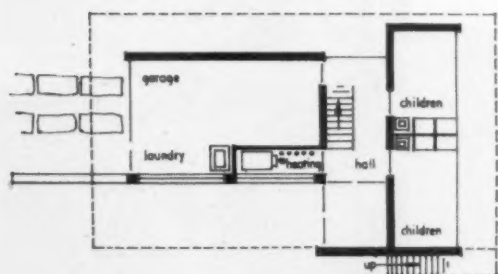
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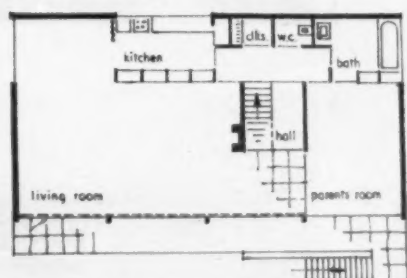
1. View from the north. 2. The atelier. The living room is on the upper level and the study below. 3. The atelier window from the open terrace. On the right, the bedroom wing and on the left the living room. 4. View from the front garden looking down into the covered terrace. The living room is above and the study below



SECTION THRO' STUDY ▲



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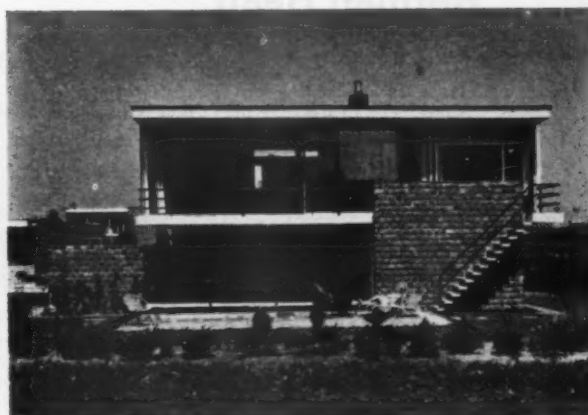
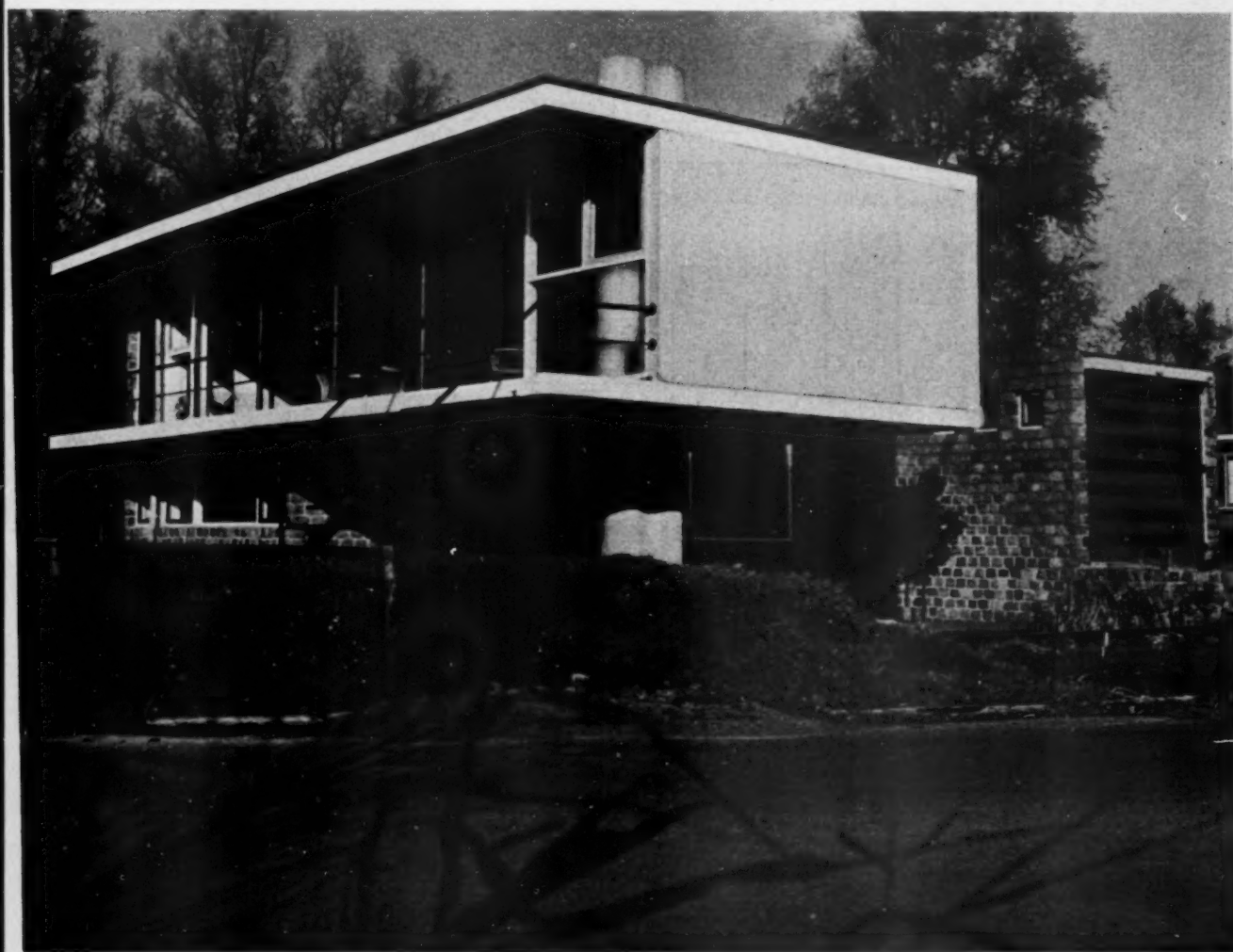


Photo: T. Rago

House at IJssel, near Rotterdam. The south elevation. The living room is on the first floor and the children's bedroom, garage and boiler room below

Architect's own house, view from the road. The garage is on the right. The pedestrian entrance is on the other side



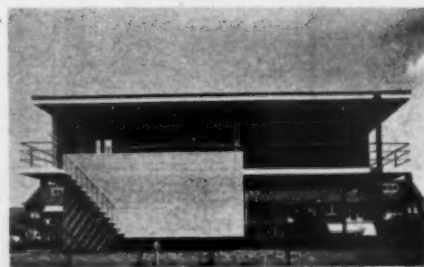
Herman Haan

This is the largest and most luxurious home by Haan illustrated in this feature. The structure is steel frame on piles with cladding mainly of white glazed brick

1. The dining area with the living room beyond. 2. South elevation.
3. The entrance with the living room on the left with the terrace and pool beneath. 4. South elevation. 5. The entrance from beneath the living room

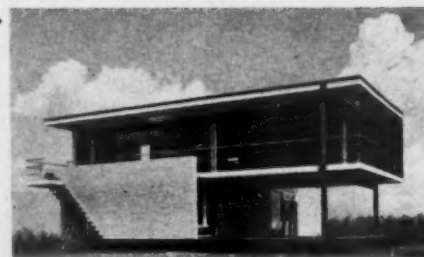


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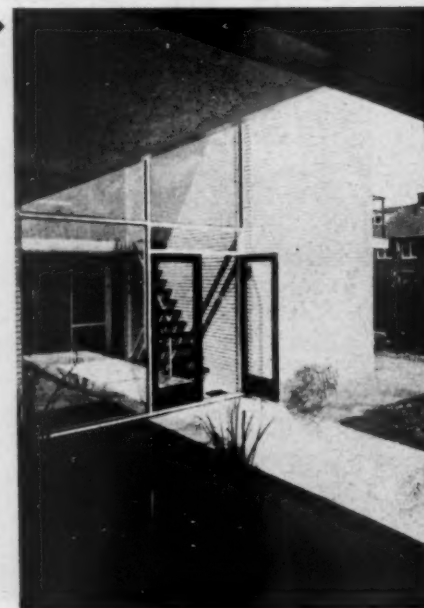
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Photos: Gerrit Burg

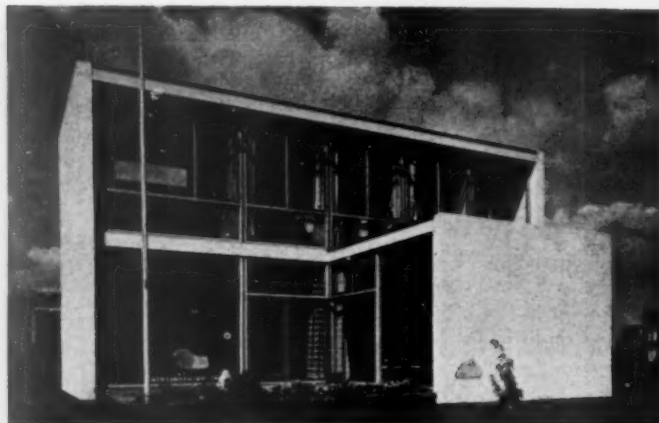


Above, the entrance elevation. The open terrace beneath the living room is clearly shown. Left, the dining area at the top of the stairs with the kitchen behind and the living room on the right

House at Noordwijk aan Zee. Construction of white painted brick with timber windows. The first floor is made in part of reinforced concrete and part of timber. The house is in amongst the sand dunes and there is a wood nearby

1 and 2. South elevation. 3. West elevation. The whole ground floor is given over to the living room and kitchen. 4. The living room

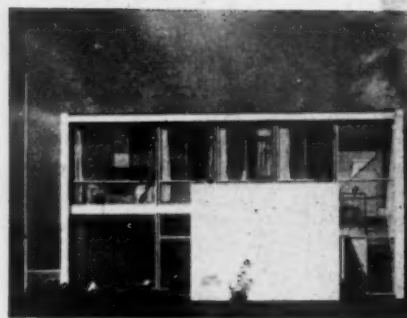
Photos: Gerrit Burg



1 ▲

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◀ 3



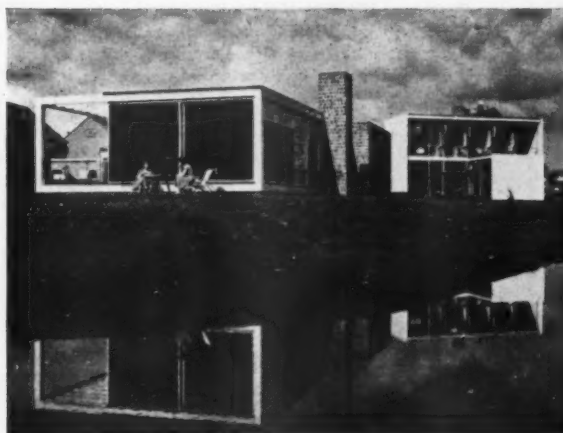
▲ GROUND FLOOR PLAN

4 ►

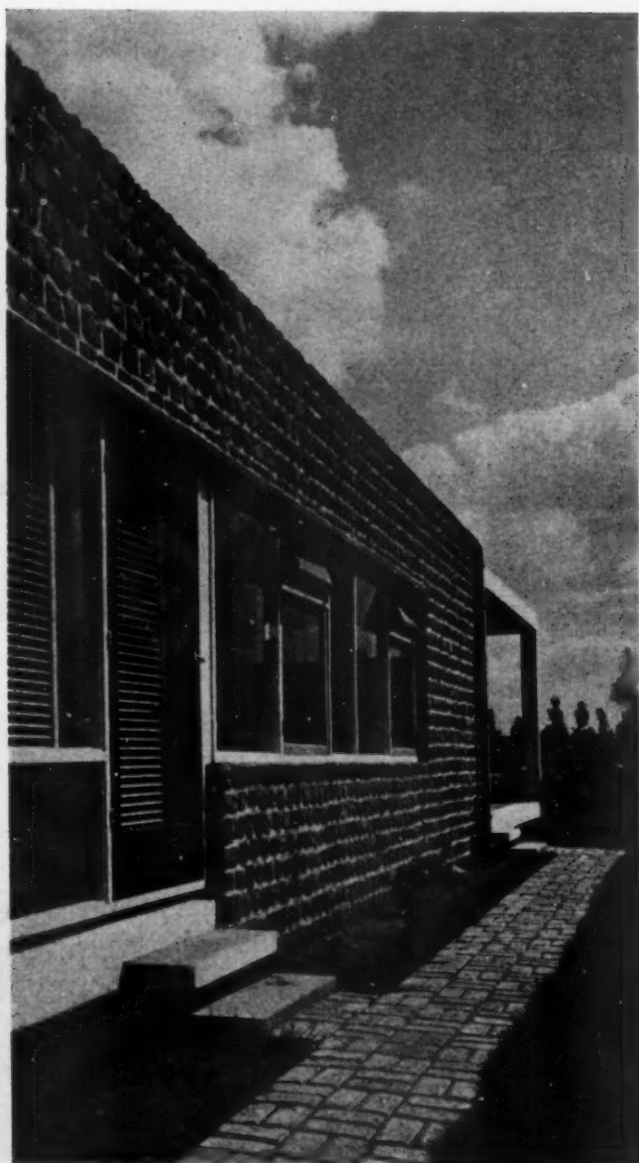


House at Noordwijk aan Zee. Construction, load bearing walls from old road stones. Timber windows and roof

1. View from the south-west. 2. Terrace outside the living room. 3. Kitchen entrance. 4. Living room

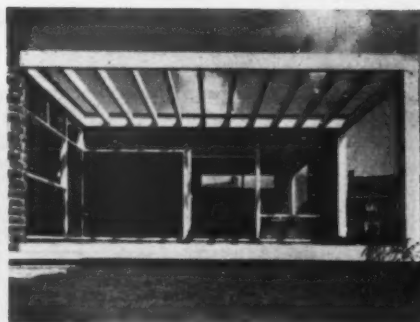


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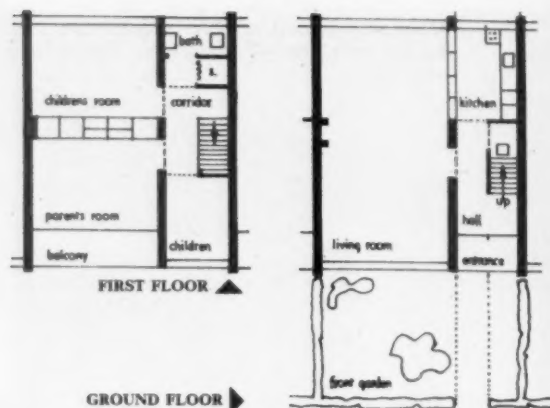
3 ◀



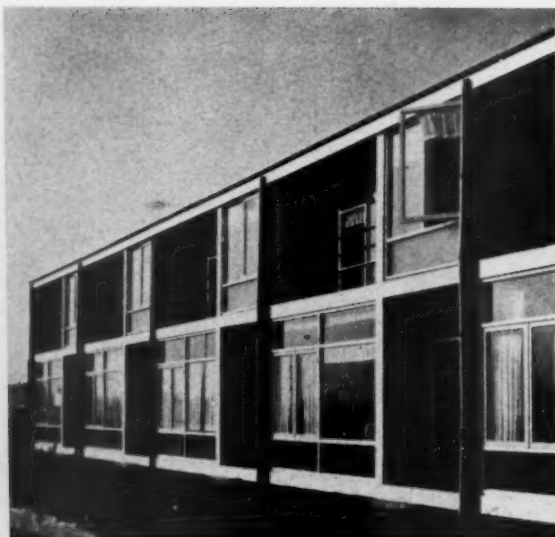
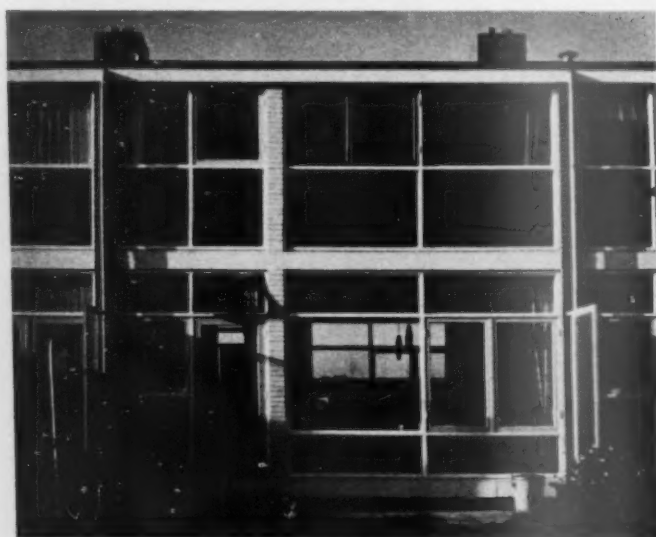
4 ▶



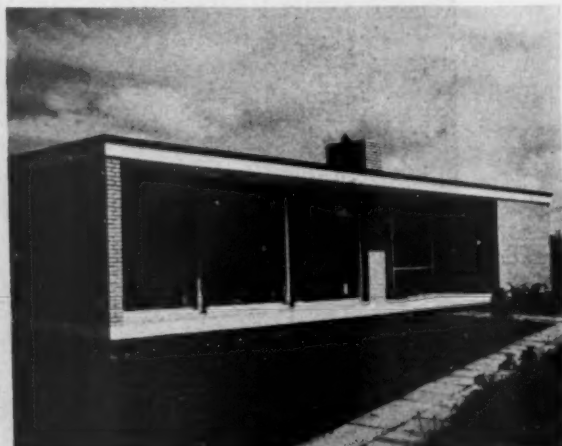
On this page, there are illustrated a row of terrace houses and two single-storey houses at Capelle aan de IJssel. On the facing page there is a house at Noordwijk aan Zee

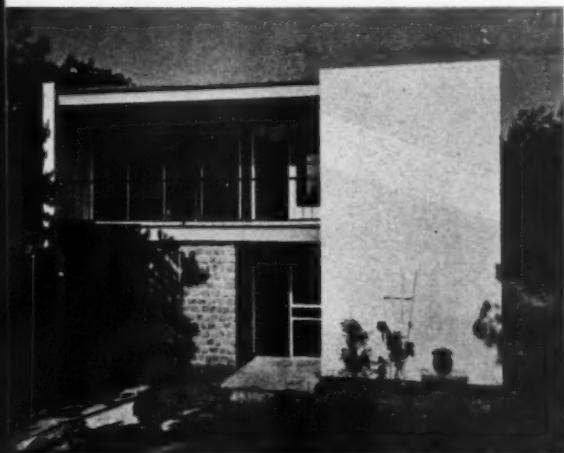


Below, terrace housing. Construction, load bearing brick cras walls with timber infill panels

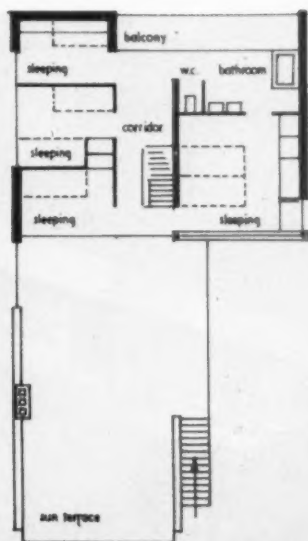


Two very similar single-storey houses at Capelle aan de IJssel. On the left, the brickwork is painted white and on the right, the brickwork is left untreated

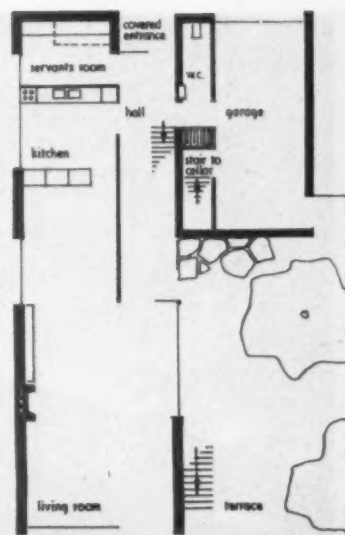




House at Noordwijk aan Zee. Above, east elevation. Below, south elevation. The living room gives onto a terrace with stairs up to a sun terrace on the living room roof



FIRST FLOOR



GROUND FLOOR





Photos: John Pantlin

flats at Cambridge

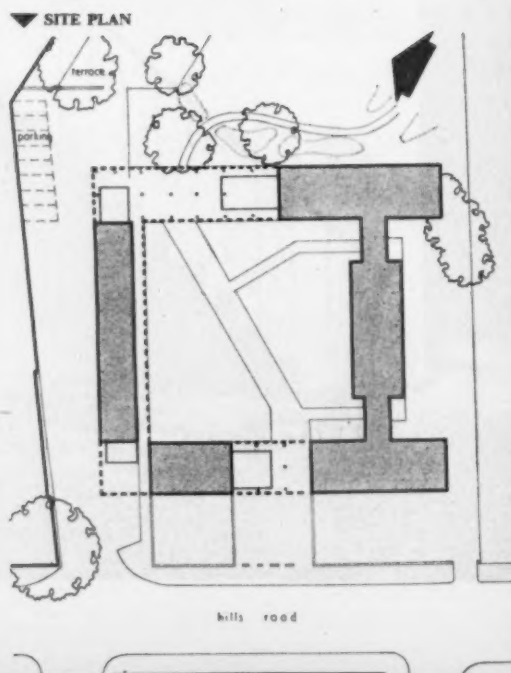
Span Developments Limited, client
Eric Lyons, architect
Z. Pick, structural engineer

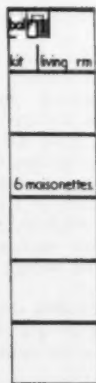
THESE flats, known as 'Highsett', are the first stage of a scheme which is being developed by Span Developments Ltd. They have been designed round a self-contained court, thus echoing the quad development of the university buildings.

Three sides of the square contain 31 flats of various types while the fourth side has a colonnade and 12 garages on the ground floor with six studio flats on the first and second floors.

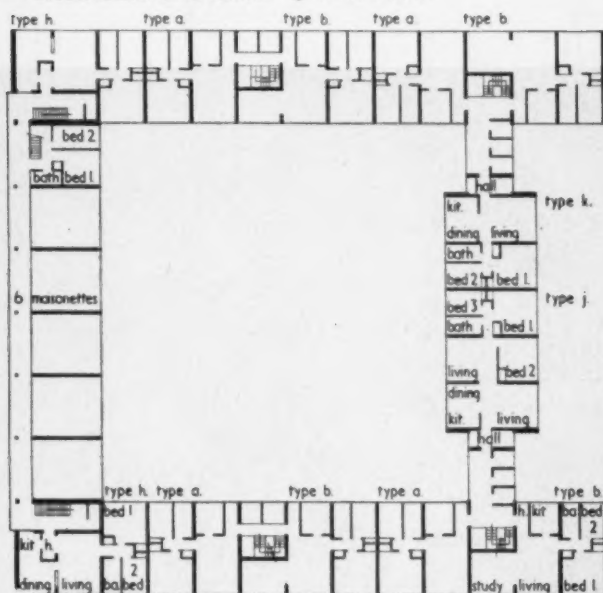
It is the intention that this development will form the main pedestrian access on to the remainder of the site which will provide multi-storey tower block and a mixture of scattered accommodation. Vehicular access will

continued on page 406

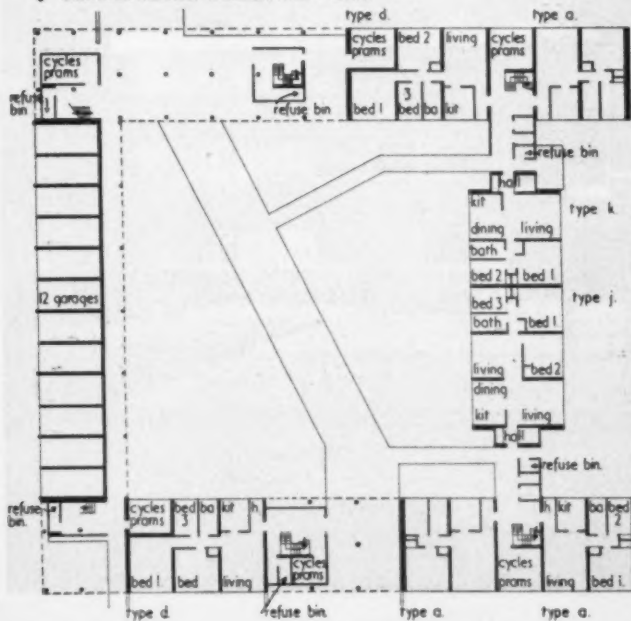




▲ UPPER MAISONNETTE FLOOR ▼ FIRST FLOOR



▼ GROUND FLOOR SCALE: 1 IN = 48 FT



A show flat (type B) is at present open to give prospective buyers a better idea of the flats in occupation. Above, part of the living area with (just to the right of this photo) the study, see below



continued from page 404

be by way of a service road on the north-west boundary which will have adequate car parking and garage compound so that cars do not litter the site and the roads are kept as small as conveniently possible.

The external court comprises a formal layout of paved, turfed and planting areas having an ornamental pool and the developers intend to produce a piece of sculpture to fit this environment.

Construction

Repetitive 9in cross-wall system of construction with exception of the flank walls which are 11in cavity brickwork. Between the strip foundations of

cross-walls ground beams carry 4in thermalite block walls to cill level: full width ground floor window frames having an extension head frame to *in situ* concrete floor above. Framing to underside of *in situ* concrete—nogged with thermalite. A further 4in thermalite wall is built from the slab carrying first floor windows (second floor similar construction). Second floor windows again have extended heads which are fixed to the roof and capped with an eaves plate.

The roof system is of 7in x 2in joists spanning between cross-walls at 18in centres having 2in Stramit boards, three-layer mineralized built-up felt and white spar chippings: an alu-

minium angle verge bonded between layers of felt.

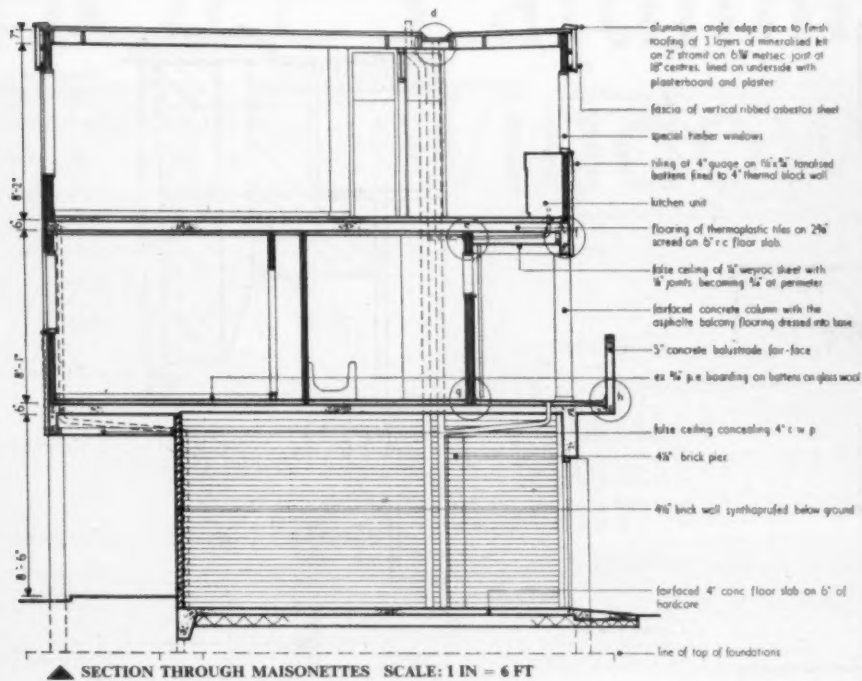
Panels between windows are clay tile hanging (arrowhead pattern designed by architect). Lower panels Eternit asbestos fitted on battens and felt. Ends of cross-walls have ½in tcc Eternit asbestos facing on battens having waterproof membrane positioned behind.

First floor slabs are insulated, the heating system being by means of under-floor heating buried within the 2½in screed.

Service balconies for clothes drying are provided at the back of the stair-case bays fitted with timber louvred screens.

At the point of entry into the inner courtyard

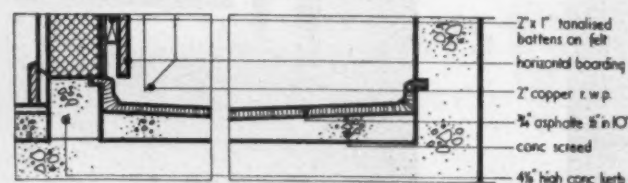
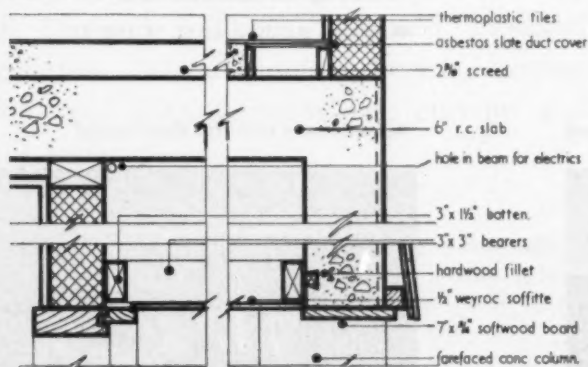
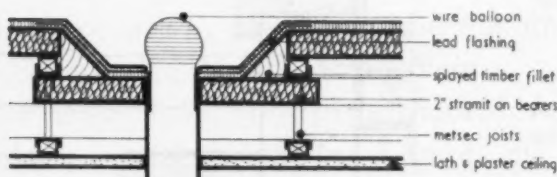




General Contractors: MESSRS. WATES LTD.

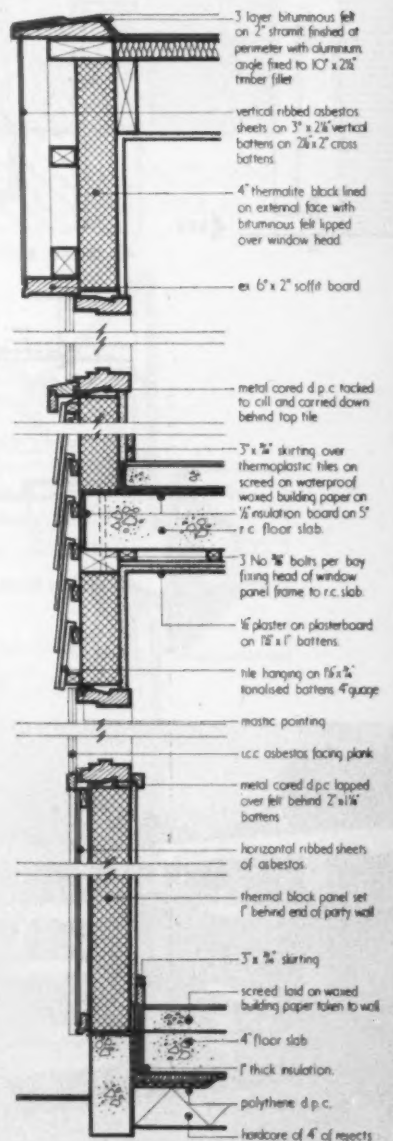
Sub-contractors and suppliers:

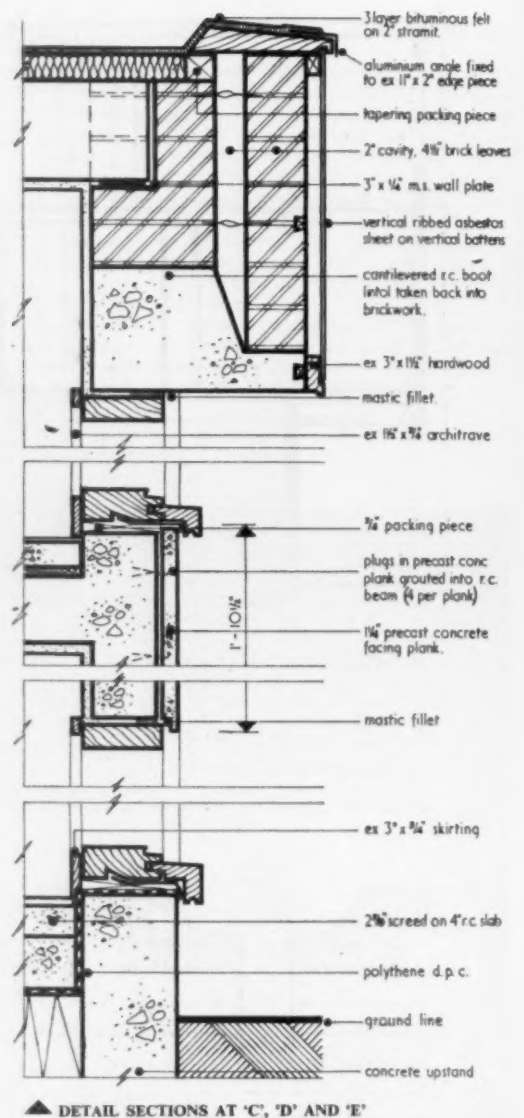
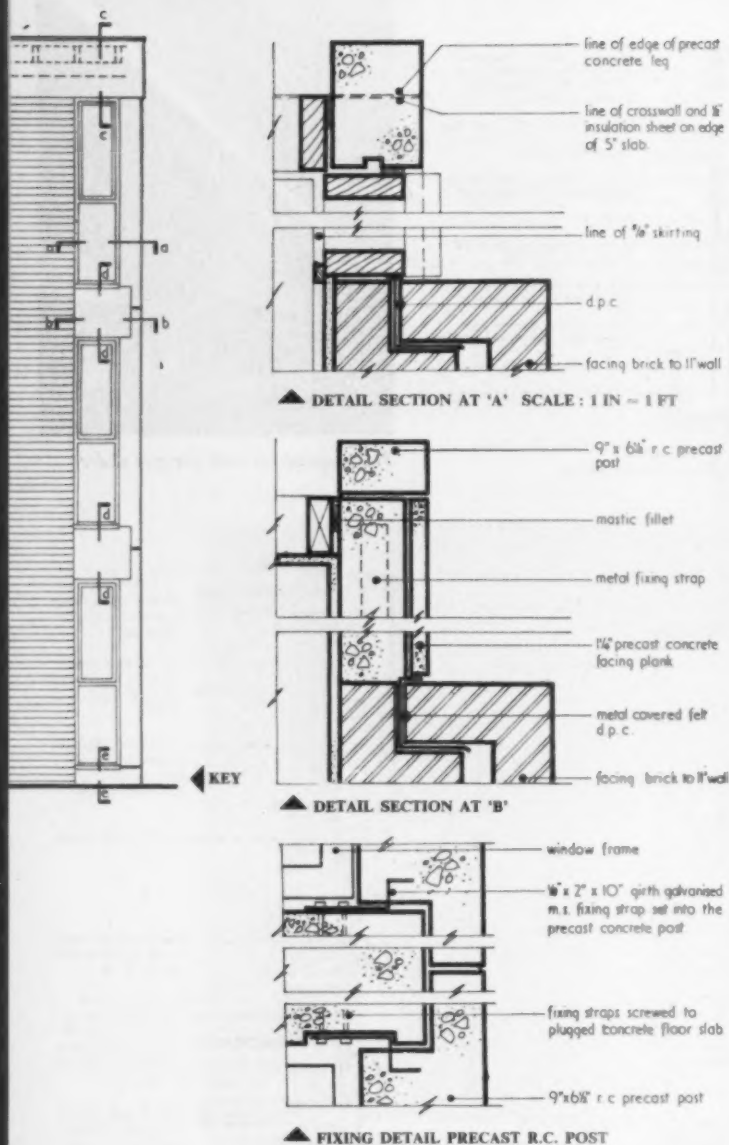
Electrical Work: A. & V. Baxter Ltd. Eternit Asbestos Sheetting: G. R. Speaker & Co. Ltd. Joinery Work: Rippers Ltd. Roofing: Permanite Ltd. Tiling: Dignus Ltd.



SECTION THROUGH
PANEL WALL
AND EAVES
SCALE: 1/2" = 1 F.S.

The maisonettes with garages under





Another view of the inner court



The main entry with Hill Road beyond



HOPE'S aluminium windows

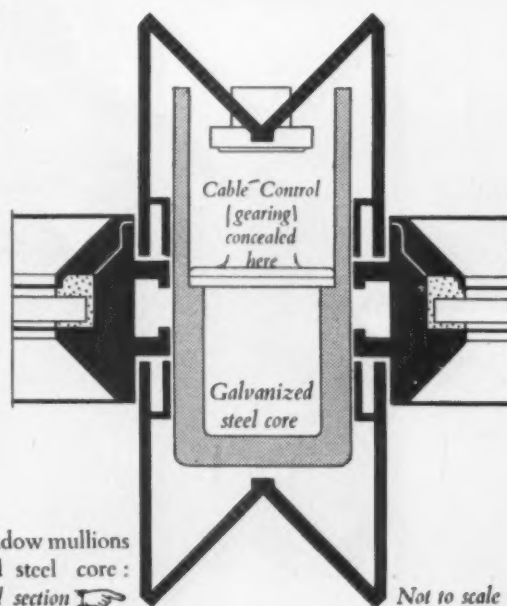


UNITED STATES EMBASSY, GROSVENOR SQUARE, LONDON

Architects: Eero Saarinen & Associates, U.S.A. Associate Architects: F. R. S. Yorke, E. Rosenberg & C. S. Mardall, FF.R.I.B.A.

Ground floor windows are gold anodized aluminium with horizontally sliding vents at head operated by our Cable Control gearing concealed within the window mullions.

Other floors have hot-dip galvanized steel windows (special fittings were designed, and in many cases, concealed, inside the window frames) with featured mullions in gold anodized aluminium. Metal window boards, heating grilles, and trim accommodate curtains and avoid costly plastering.



GOLD ANODIZED window mullions
with hot-dip galvanized steel core:
typical section

HOPE'S WINDOWS
The Name Guarantees



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SMETHWICK, BIRMINGHAM
LONDON: 17 BERNERS ST., W.1

YOU CALL THE TUNE—HE PLAYS IT When it comes to cast iron pipes, he knows the score. He's our Mr. Powell, but he might well be one of our other eight area pipesmen. Each is a personal pipeline to the Allied Service, ready to look after your interests at all times. You can contact him for prompt delivery of rainwater, soil and drain goods. You can send him your drawings for information as to the pipes etc. you should order and where supplies may be found. He will perform any variations on the theme of rainwater and soil drain goods you like to compose. No applause for Mr. Powell, please. He is just doing his usual job—at his usual concert pitch.

For area 1, Telephone Stockton 65291; for area 9, Telephone Falkirk 2441; for all other areas Telephone Wellington (Salop) 510.



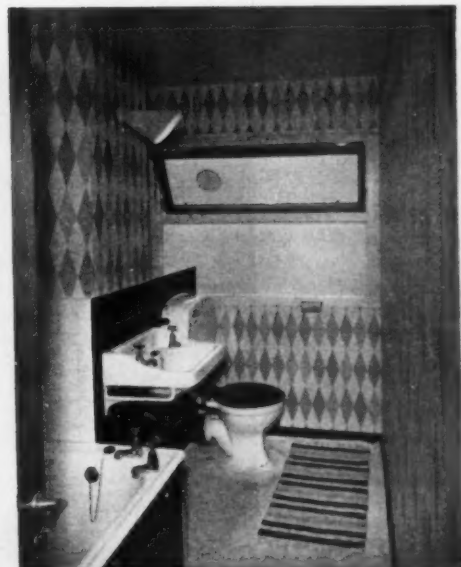
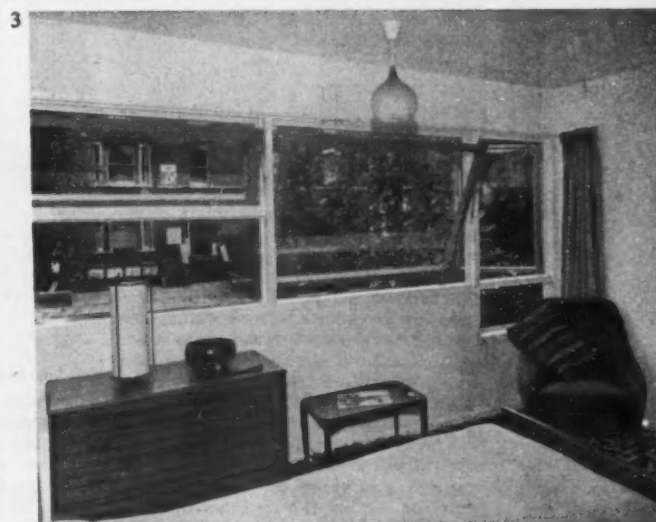
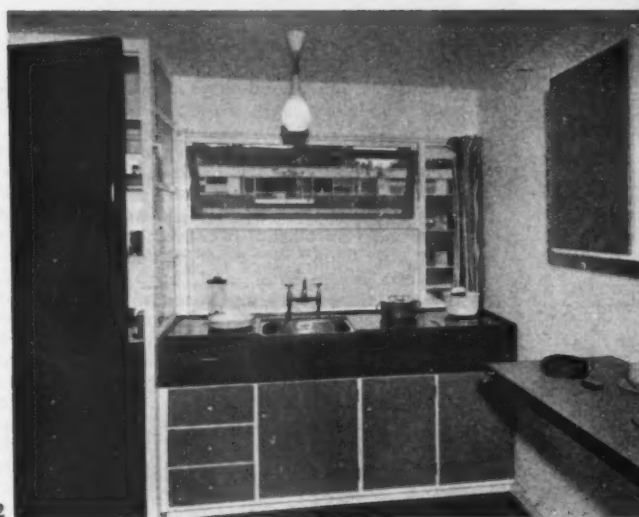
rainwater and soil goods division of **ALLIED IRONFOUNDERS**

KETLEY WELLINGTON SHROPSHIRE





Above, the main elevation to Hills Road showing an unusual corner treatment (detail facing page). Right, 1, another corner of the living room, hall and kitchen beyond. 2, a detail of the kitchen. 3, the master bedroom. 4, the bathroom



In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements made to the existing ones. Any advantages claimed on behalf of the products are taken from information given by the manufacturer

Fireclay Washbasins (A)

The Vega and Portia fireclay lavatory basins have recently been approved by the C.O.D. The Vega fireclay basin has a wide shelf which can either be to the left or the right hand. This shelf provides a resting place for shaving equipment, toilet accessories, cosmetics, etc., and makes it suitable for use in bedrooms and flats or flatlets. It has an anti-splash bowl measuring 18½in by 13½in and its overall size is 30in by 18in. It can be fixed either on concealed or exposed brackets, whilst the waste may be either 1½in or 1¼in. The overflow may be integral with the ware or separately in the form of a standing waste. It can be supplied either in white or in a choice of colours. A number of Vegas were recently installed in a Yorkshire hospital without tap holes so that they can be used for elbow lever action and with a standing combined waste and overflow. The Portia glazed fireclay lavatory has a symmetrical bowl available in three sizes, 24in by 22in, 22in by 20in and 20in by 18in. The actual bowl sizes are respectively 18in by 11½in, 17in by 10½in and 16in by 9in. It can be supplied for fixing on either exposed brackets or pedestal and has an inwardly sloping rim top to minimize risk of splashing, whilst the positioning of the taps ensures ample room for cleaning behind. The Portia can be supplied either in white or in a choice of colours.

Sanitary Fireclay Technical Bureau,
57 Great George Street, Leeds 1.
Readers' Information Service
Ref. A. 28/9/60.

Electric Firelighter (B)

The Hockley electric firelighter has been produced for solid fuel fire-lighting. It consists of two high-temperature elements which are wound on inner ceramic formers for firm support and location. These are inserted into outer ceramic sleeves which in turn fit into stainless steel tubes for final support and protection as they lie in an open-topped cast iron container. It is claimed that, when switched on in position in the fire grate, these two elements become red hot and very quickly kindle any fuel on and around the lighter. The fire should be allowed to get well alight before switching off and removing the lighter. When lighting coke or smokeless fuel, only small pieces should be used on and around the lighter and no draughts should be applied until the centre of the fire is well kindled. It is claimed that the firelighter will kindle

a coal fire in about five minutes and a smokeless fuel fire in a slightly longer period. The elements should last for a long time but replacements can be easily fitted, and a heat resisting stainless steel top hotplate, through which the heat from the element passes, can also be easily and cheaply renewed if necessary. Rating: 1kW. Voltages: 230/250 or 200/220V. Price: 38s, including P. Tax.

Hockley Electric Co., 56 Great
Hampton Street, Birmingham 18.
Northern 3270.
Readers' Information Service
Ref. B. 28/9/60.

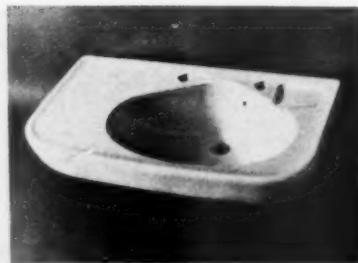
Domestic Gas Boilers (C)

Two further gas boilers have been added to the Kingston range of domestic units. These are Nos. 3 and 4 with respective outputs of 45,000 and 70,000 B.Th.U./hr. These additions bring the Kingston range of gas boilers to four models in all. The new Kingstons will give full central heating, plus constant hot water, in a three- to five-bedroomed house. They are available for small bore heating, if required, with an Ideal-Hotflow accelerator fitted within the boiler cabinet. They may also be used for direct hot water supply because, although they are of sectional construction, they incorporate cleanout covers which enable sludge or lime to be removed. They can be supplied Bower-Barfield for soft water districts. The boilers are fitted with electrically-operated Flamaster automatic ignition which gives on/off automatic control. The boiler is turned on and off by means of a switch and there is no pilot to light. The Flamaster shuts down the boiler when electricity or gas supplies fail and automatically relights it when supplies are restored. A clock controller and room thermostat may be fitted and these should simply be plugged into the Flamaster control box. Prices: No. 3—£62 (£97 with accelerator); No. 4—£72 (£107 with accelerator).

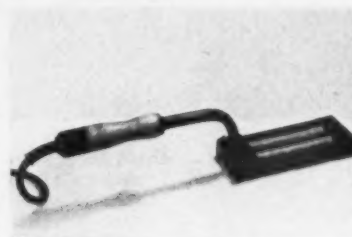
Ideal Boilers & Radiators Ltd.,
Ideal House, Great Marlborough
Street, London, W.1. Gerrard 8686.
Readers' Information Service
Ref. C. 28/9/60.

Oil-burning Domestic Boiler (D)

The Petite oil-burning domestic boiler is designed for use in the smaller type of house and for heating a storage cylinder or tank of 30 to 35gal capacity. It will supply about 250 to 450gal of hot water per week as well as heating a towel rail and an airing



New fireclay lavatory basins (above) the Vega and (below) the Portia (A)



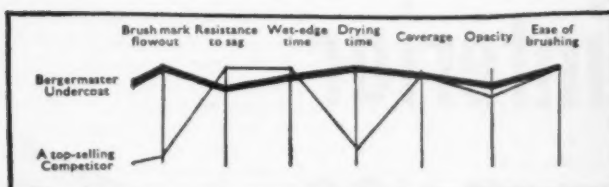
The Hockley electric firelighter (B)

New Kingston gas-fired boiler (C)



How well does Bergermaster paint perform?

Better than the best of the rest. If that sounds like a facile bit of megalomaniac advertising chit-chat, look at the photos of undercoats and gloss alongside. These were arrived at during routine laboratory development tests against representative top-selling competitors. They weren't meant for publicity, but we'd be silly not to use them.



Our tests show, briefly, that Bergermaster has balanced seven conflicting but desirable paint characteristics. And that no one else has managed to do so to the same degree. The result is a tractable undercoat/gloss combination which produces an immaculate and durable finish. All other paints in the Bergermaster systems are of an equivalent standard, and the systems provide a finish for virtually every purpose.

Does it offer a better colour choice?

Yes. Bergermaster have the BS2660 101 range ready in stock of course, and a number of exclusive additional colours for 1960. For these, Bergermaster consulted a specialist who wasn't fresh out of art school with a thing about the Fauvists, and tempered his advice with their own research findings. We think the new colours are vital, subtle, *sympatico*, bold and right. Some of them have names of the Atoll Sunrise school, but this is a trivial irritation and their quality and function is unimpaired.

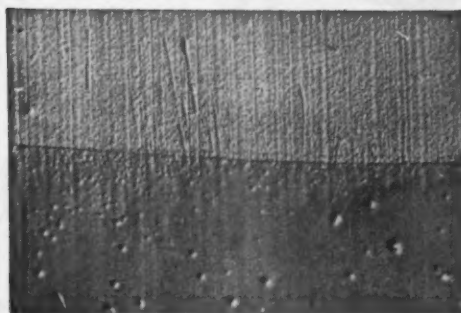
What sort of service do you get?

A good one, free consultation and assistance with specification to site. Architects who aim to mix white from two spare Bergermaster blacks can call the Architectural Service Department for a snap judgement on their prospects. Books of divisible colour specimens, specifications and the like are readily available. Supply is now fast and dependable.

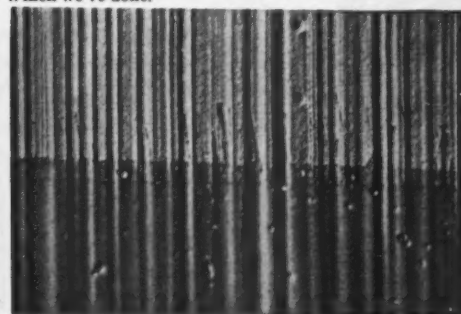
Bergermaster

complete paint systems for architects

LEWIS BERGER (GREAT BRITAIN) LIMITED



PROOF BY PHOTOGRAPHY—these shots, highly magnified, are absolutely unretouched or rigged in any way. Random samples were painted onto identical test surfaces (vertical) with identical brushes under identical conditions. See how (above) Berger Undercoat goes on smoothly so that its top coat inherits no brushmarks, and neither coat suffers sagging. You get a first class finish, in contrast with, for example, that shown in the lower photo; a top-selling brand. Both show dust marks, inevitable when you magnify *without retouching*. Which we've done.



To: Architectural Service Department,
Berger Paints Ltd., Berger House, Berkeley Square, London, W.1.
(Scotland only) Berger Paints Ltd., 5 Park Gardens, Glasgow, G.3.
I like your nerve and I'd like to know more about your paint.
Please send—

Your representative, with bag of tricks, including
the Bergermaster Specification Book and details of
101 + exclusive colours.



NAME

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Using STORRILUX combined with STORRILUX UNDERCOAT will inevitably result in a first class finished job.

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STORRY SMITHSON & CO. LTD.
BANKSIDE HULL.



cupboard. With a 30gal cylinder, a towel airer and radiator with up to 20 sq ft heating surface may be served. It has an output rating of 12,000 B.Th.U/hr at high flame and 2,000 B.Th.U/hr on low flame. It is thermostatically controlled and claimed to be both noiseless and odourless in operation. The water is heated by a natural draught vaporization burner and the heated water temperature is maintained by means of a Teddington VL/R oil flow control. Bower Barfed or glass-lined firepots can be supplied for use in soft water districts. Recommended fuel: domestic vaporizing oil. Overall dimensions: 23½in high by 15½in wide by 18in deep. Finish: cream or white enamel. Price: £45.

Crane Ltd., 15-16 Red Lion Court, Fleet Street, London, E.C.4. Fleet Street 6511. Readers' Information Service Ref. D. 28/9/60.

★

Improved Safety Sling (E)

The Talurit safety sling for the protection of personnel and the handling of fragile or irregularly shaped products has been improved. It can be supplied to any length or width and with any lifting capacity. A wide variety of terminations, including shackles, reeving links, soft eyes, crescent thimbles and enlarged thimble eyes, can be supplied and these terminations can be fitted at each end of the sling or in a combination of any two terminations, one at either end of the sling. It incorporates the Talurit wire rope mechanical splice and is covered with special grade P.V.C. protectors which are oil- and chemical-resistant. It is claimed to function perfectly at temperatures from -22 deg F to +140 deg F and will not kink or twist. The protectors are resistant to abrasion and can be individually replaced. Three of the improved Talurit safety slings are illustrated. Top: four wire sling with shackle each end for double suspension. Centre: four wire sling with shackle at one end and reeving link at the other for single suspension. Bottom: two wire sling with soft eye at one end and reeving link at the other for single suspension.

Cable Covers Ltd., St. Stephen's House, Westminster, S.W.1. Readers' Information Service Ref. E. 28/9/60.

★

Oil-fired Boilers (F)

The Potterton GOA series oil-fired boilers are available with outputs ranging from 1,000,000 to 2,000,000 B.Th.U/hr and the smallest boiler in the new series supersedes the largest boiler in the FOA series. GOA boilers are complete units with burner and controls as a matched and tested combination. The boilers consist of from four to eight cast iron waterway sections assembled by means of Taylor's

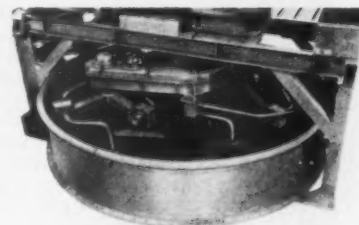
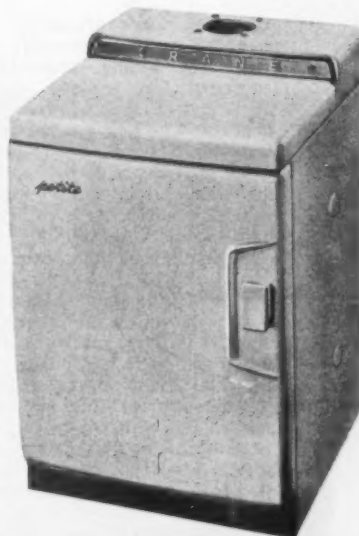
rings and tie bolts to form a combustion chamber with water-cooled sides and base. The off-setting of the water tubes does away with the need for baffles and their finned design provides a large secondary heating surface and gives the boiler a high thermal efficiency. Each section measures approximately 75in by 45in by 8½in and weighs about 8cwt. GOA boilers are available with a choice of pressure jet burner (200 sec oil) or Urquhart's 'Mac Flame' burner for use with 900 sec oil. Automatic governing of draught at the boiler flue outlet is achieved by means of an automatic damper. This obviates the cooling of the stack which may occur with a draught stabilizer and also means no increase in the air inlet demand of the boiler house is required. The boilers will be available in November and are considered suitable for large municipal buildings, hotels, office blocks, large churches, factories, hospitals, etc. All the boilers in the series measure 75in high by 48in wide but the depths vary from 37in to 72in according to boiler output. Similarly the weights vary from 39cwt to 70cwt. Prices range from £850 to £1,400 for the pressure jet burner type and from £1,150 to £1,600 for the 'Mac Flame' burner type. In addition, there is a charge of £50 when sheet metal casing is required.

Thomas Potterton Ltd., Cavendish Works, Buckhold Road, Wandsworth, London, S.W.18. Vandyke 4521. Readers' Information Service Ref. F. 28/9/60.

★

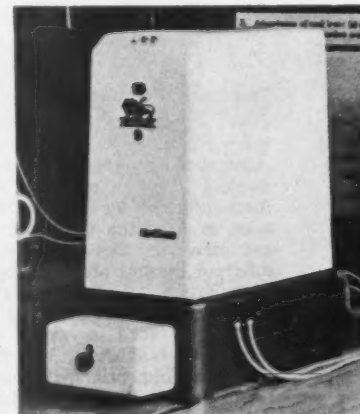
New Concrete Mixer (G)

The 42/28B Gyramixer is a stationary horizontal pan type concrete mixing unit. It has an unmixed batch capacity of 42 cu ft and a 28 cu ft mixed batch capacity. It has been developed for high-speed mixing of concrete to any specification, ranging from pavement quality to harsh lean mixes. The Gyramixer is designed for building and contracting work, central mixing plants, ready-mixed concrete plants and will also handle soil stabilization mixes. It has an output of up to 60 cu yd per hr, regardless of the type of mix. Mixing time for batches is from 20 to 30 sec and is achieved by the blending action of the blades. It is claimed to provide a completely integrated mix giving the highest possible strength concrete, and also to be capable of producing higher strength concrete mixtures with minimum cement content. The machine is robustly constructed with a 13.5 cu ft power-operated discharge opening. The pan forms part of the main frame structure and the number of moving parts is reduced to a minimum, all gears being machine-cut and totally enclosed. The pan forms part of the base structure and has an overhead drive to obviate the need for a central pedestal, thus reducing the pan



Top: Crane Petite boiler (D)
Centre: 42/28B Gyramixer (G)
Bottom: Talurit safety slings (E)

Below: Potterton GOA oil-fired boiler (F)



diameter and providing optimum capacity without excessive depth of mix. The sliding discharge door is mounted on rollers running on shrouded tracks and fitted with automatic scrapers to prevent build-up of concrete. Opening and closing of the door is controlled by a horizontal pneumatic ram, a final positive seal being obtained by a vertical jacking ram located under the discharge door. The mixing unit comprises a rotating gearbox which revolves about the centre of the pan. It carries two stars, each rotating about its own axis and fitted with three mixing blades. Floor and wall scraper blades are also attached to the rotating gearbox. This arrangement ensures that the entire pan area is covered during each revolution, and that materials are directed from the edge of the pan into the path of the mixing blades. The Gyramixer is powered by a totally enclosed squirrel cage electric motor of 35 b.h.p. but, as an alternative, a 38 b.h.p. diesel engine drive with clutch can be substituted. Drive from the motor to the mixing unit is taken through a helical spur reduction gearbox and a layshaft, to a worm reduction unit. A vertical type water tank of 35gal capacity supplies water for the mix and is measured volumetrically by means of an adjustable syphon which is set accurately by a gauge calibrated in pounds and gallons. Water is pressurized to effect rapid discharge through a distribution pipe located over the aggregate feed chute. The power-operated skip is mounted on track rollers running in channel section guide rails. The skip is hoisted by a special heavy-duty electric winch powered by a 7.5 h.p. totally enclosed fan-cooled, weatherproof type, squirrel cage motor fitted with a 6in electro magnetic brake. The diesel engine driven Gyramixer can be arranged for skip hoisting to be powered by the mixer prime mover, incorporating heavy-duty clutch and brake. Pan size: 8ft 9in dia by 1ft 8in deep. Discharge time: 15 to 20 sec. Control can be either automatic or semi-automatic.

Blaw Knox Ltd., 94 Brompton Road,
London, S.W.3, Kensington 5151.
Readers' Information Service
Ref. G. 28/9/60.

Waterproof Plywood Sheets

Giant waterproof plywood sheets are now available in this country from Australia. The sheets are without scarf jointing and are made in one piece measuring 25ft by 7ft. They have been used in Australia for some time but are new to this country. Twelve different finishes are available, with a permutation of thicknesses ranging from $\frac{3}{4}$ in for boat skins to $1\frac{1}{2}$ in aluminium-faced plywood for divisions and bulkheads, but there are, however, four principal finishes. The first of these, Breswood Marine plywood, is used extensively in America

for the building of marine craft and for making the patented Foldaboat dingies which ride flat on the top of a car. The second, Brescote Hot-bonded plastic-surface panel, is suitable for marine and exterior use. Its principal applications include construction of railway carriages and coaches, caravans and mobile trailers, trucks, refrigeration trucks and units, cargo containers, bus floors and hotel canopies. The third product, Industrial Brescote, is used for farm units and sheds, kilns, air ducts, tobacco factory kilns and units and food processing plants, bins, containers and platforms. The panels can also be used in the home, for flat roof stressed skin construction, exposed ceilings, flooring, wall linings, built-in cupboards, solid doors and fascias and garage doors. It is also suitable for use in concrete formwork such as for the 'Off-the-form' finish for multi-storey buildings and for form work for dams and bridges. The fourth product, Alumpy, combines the advantages of aluminium, in the lightest possible gauge, and weatherproof plywood. It has been used in the Myer Music Shell in Australia where the makers have guaranteed it for a minimum of 10 years against any deterioration in bonding. In this instance, Alumpy covers an area of one acre in $\frac{1}{2}$ in thickness. Alumpy can be supplied in various sizes and it is light, rigid and stable as well as being unaffected by variable climatic conditions. In large orders, cut-to-size panels of plywood sheets are machined accurately to 1/32in tolerance. The distributors have a team of trained personnel available for advising prospective users of the types which would economically suit their particular production methods.

Ralph Symonds (Scotland) Ltd.,
44 Queen Street, Edinburgh.
Caledonian 3815.
Readers' Information Service
Ref. H. 28/9/60.

Self-adhesive Labelling

A new adhesive has been formulated by this company and applied to a series of self-adhesive labels known as Superbond Tickotabs. This new adhesive creates a permanent bond between the label and the object to which it is applied. Once a Superbond Tickotab has been placed in position it cannot be removed in its entirety for the label will be destroyed once any effort is made to lift it. These labels have been developed for difficult labelling surfaces such as P.V.C., polythene, wax coating and irregularly contoured surfaces such as glassware, ceramics, ribbed bottles and containers with indented surfaces. However, when labelling a cold metal surface a strong, tenacious thermoplastic adhesive known as Texgrip is preferable to Superbond. The Superbond adhesive is stated to be capable

of withstanding higher temperatures than normal adhesives and performing satisfactorily when the labelled article is subjected to oil or water. Superbond Tickotabs are now supplied in paper and glassine, plain or printed.

John Goshon & Co. Ltd.,
Albert Embankment, Vauxhall,
London, S.E.11. Reliance 7600.
Readers' Information Service
Ref. I. 28/9/60.

★

Standard Shelving and Work Tops

The Readyshef range of shelves and work tops is made from Melabond, a wood chipboard faced on one side with decorative Melamine on hardboard and, on the reverse side, with plain Melamine on hardboard. The shelves and work tops have one long and two short edges finished in black P.V.C. which is tongued into the chipboard core. The other long edge is treated with a rubber sealer coat and all corners are square. The shelves are rigid and durable and are ready for placing into position in pantries, cabinets and show-cases and as wall shelving in bathrooms, kitchens, etc. Standard sizes: shelves—3ft by 11in and 4ft by 11in; work tops—2ft 6in by 1ft 6in, 1ft 9in by 1ft 9in, 2ft 6in by 1ft 9in, 3ft by 1ft 9in, 3ft 6in by 1ft 9in, 4ft by 1ft 9in, 4ft 6in by 1ft 9in. Finished thickness: $\frac{1}{2}$ in. Colours: grey linen, Nigerian mahogany, yellow magic, blue magic, grey magic, red magic, buff linen and white. Price examples: 3ft by 11in from 16s each for quantities up to 50 and up to 19s 4d each for small lots; 4ft by 1ft 9in from 42s 8d to 51s 3d.

F. Hills & Sons Ltd.,
Norton Road,
Stockton-on-Tees.
Stockton-on-Tees 67141.
Readers' Information Service
Ref. J. 28/9/60.

★

Hardboard Flooring

Escalor is a new type of hardboard flooring made from Escaboard. It is in the form of tiles, measuring 23 $\frac{1}{2}$ in square, which are bevelled and grooved to give the appearance of four tiles, each approximately 1ft square. It is claimed that these ready-to-lay hardboard tiles do not need sealing, filling or priming. The flooring can be nailed or fixed with adhesive to normal timber boarded floors or laid on concrete sub-floors. Fifteen tiles are supplied in a carton with a coverage of 57 $\frac{1}{2}$ sq ft and retail at 45s per carton. At the same time, a new non-slip emulsion polish for these tiles, known as Dri-Brite is being offered at a price of 6s per $\frac{1}{2}$ pt tin. Dri-Brite gives a good wax polishing and non-slip surface.

Martin Olsson (Fibreboards) Ltd.,
Melbourne House, Aldwych,
London, W.C.2.
Readers' Information Service
Ref. K. 28/9/60.

WHICH WAY DOES A WHIRLPOOL WHIRL?

But someone said it was clockwise
on the other side of the Equator.

Gurgles just the same I'll bet.
There goes the last of the water,
Down the pipes and into the drains.

I suppose. We've got cast iron pipes.

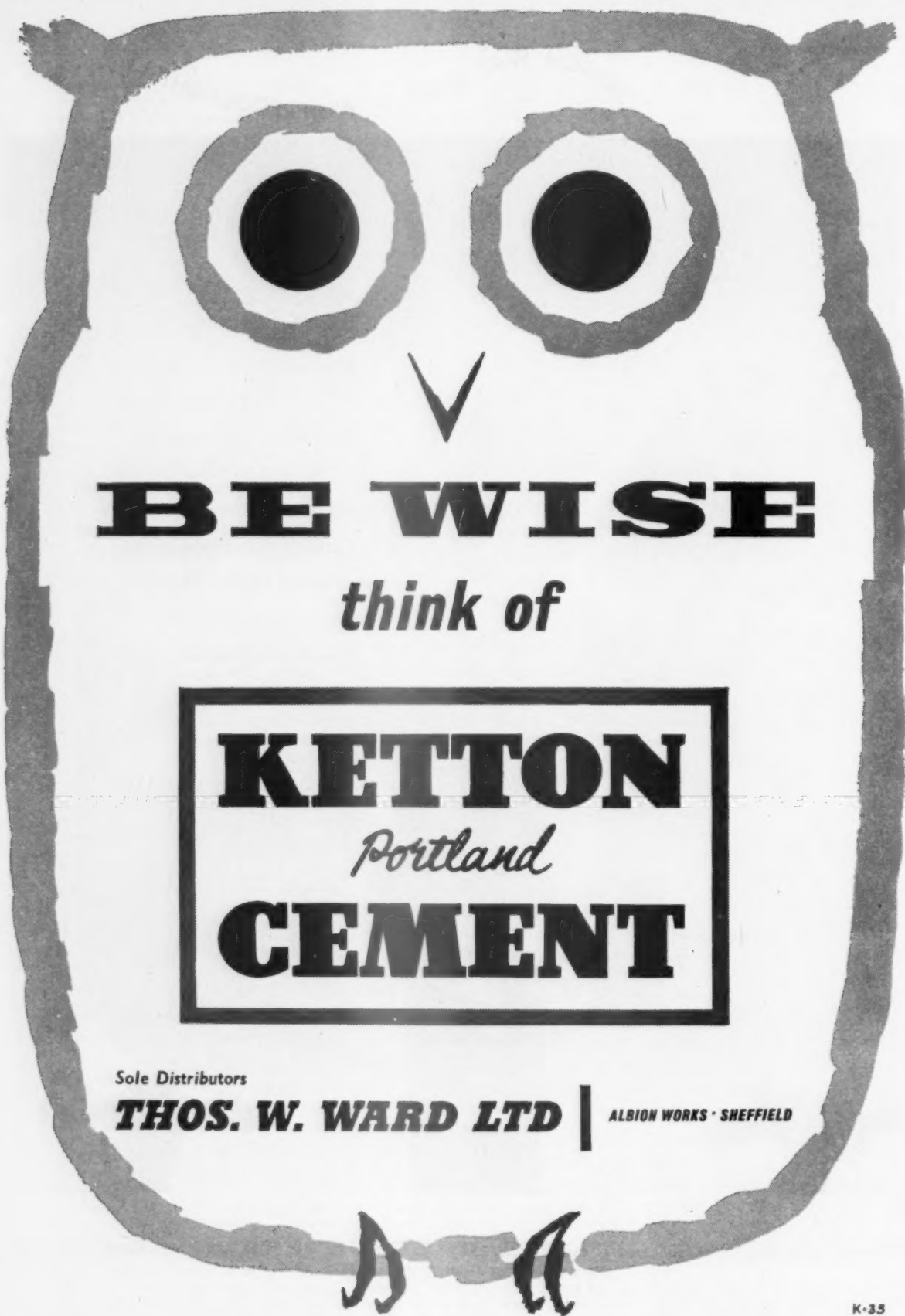
Everybody said they were best.
Solid and all that. One never
thinks about pipes. Funny, really.
Wonder if they have a complex about it.

Dear Sir, I am a cast iron pipe.

A solid, reliable, hardworking
pipe with many year's experience.



rainwater and soil goods division of **ALLIED IRONFOUNDERS** KETLEY WELLINGTON SHROPSHIRE
TEL: WELLINGTON 510 (OR FALKIRK STIRLINGSHIRE 2441)



BE WISE

think of

KETTON

Portland

CEMENT

Sole Distributors

THOS. W. WARD LTD

ALBION WORKS · SHEFFIELD

market prices (London)

These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size. They include delivery and are the material basis used in the build-up of 'Measured Rates' and subject to the conditions heading that schedule. Prices are under careful constant review but should be confirmed.

AGGREGATES AND SAND

1½in—all in—ballast	26/6	Yard cube
¾in do. do.	27/-	delivered
¾in screened shingle	24/6	(in five-yard
¾in do. do.	25/9	loads or
¾in granite chippings	49/-	more)
Sharp washed sand	27/-	
Pit sand	24/-	
Building sand	23/6	
Broken brick	21/-	
1½in shingle	22/-	
Cartage of muck	10/-	

BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

CEMENTS packed in paper bags	Per ton
Portland in 6ton lots	110/-
Do., from 1ton to 5ton 19cwt do.	122/-
Do., Rapid hardening (6ton lots)	120/6
Do., (but 1ton to 5ton 19cwt)	132/6
Cement 'Aquacrete' (do.)	154/6
Do., '417' or 'Polar' (do.)	154/6
Do., 'White' 1ton (lots)	275/6

LIME—	134/6 (1ton loads) deliv'd
Hydrated .. including ..	132/- (2/3 do.) do.
White .. Bags ..	122/- (4/5 do.) do.
	120/- (6 do.) do.

PLASTER—

Keenes, coarse, pink	239/6 ton
Do. do. white	244/9 do.
Sirapite, do.	179/9 do.
Do. finish	187/6 do.
Hardwall, do.	179/9 do.
Plaster, coarse, pink	168/3 do.
Do. do. white	177/9 do.
¾in Gypsum Plaster Lath ex works (600sq yd)	2/3½sq yd.
¾in do. do. Wallboard do.	2/6½ do.
¾in Jute scrim (100yd roll)	10/8 each
Cow hair (under 3cwt)	62/3 ½cwt

FIRECLAY—

In non-returnable bags (1ton lots) ..	217/3 ton delivered
Fire cement	12/3 14lb

BRICKS

BACKING BRICKS (in truck loads)—

Flettons	122/- per	1,000 delivered
Do. Keyed	124/-	do.
Do. bullnose	164/-	do.
Blue wirecuts (Net)	547/-	do.
White	202/-	do.
Southwater engineering (Class A)	400/6	do.
Firebricks—2½in	625/-	do.
Do. —3in	750/-	do.

STOCK BRICKS—

Mild stocks	205/- per	1,000 at Works
Second, do.	284/-	do.
First, do.	320/-	do.
Add for delivery—approx. 55/- per 1,000 in lorry loads.		

FACINGS (ex truck or lorry)—

Rustics	162/- per	1,000 delivered
White	220/-	do.
Blue pressed, 2½in (Net)	614/-	do.
Do. bullnose	633/-	do.
Reds (Multi sand faced)	350/-	do.
White glazed stretchers	1696/-	do.
Do. headers	1670/-	do.
Do. bullnose	2120/-	do.
Do. double stretchers/	2053/-	do.
Do. double headers	2173/-	do.
Breeze fixing bricks	30/6 per 100	
Fire tile and lumps	34/- ft cube	
Wall ties—8in by ½in by ½in,		
galvanized	77/3 per cwt	
Cement mortar (1:3) hand-		
made	94/- yd cube	

BRICKLAYERS' SUNDRIES—

AIR BRICKS	9 by 3in	9 by 6in	9 by 9in	12 by 9in
Iron .. each	2/10	4/7	6/10	9/2
Galvanized do. do.	4/10	8/-	11/11	14/6
Terra Cotta do.	1/2	2/4	5/8	11/2
Chimney pots, Terra	1ft	2ft	3ft	4ft
Cotta (10 to 25) do.	9/4	16/3	37/3	64/6

PARTITIONS—

18in by 9in Blocks keyed for plastering			
Per yd super in 6ton lots	2in	2½in	3in
In solid clinker including any half blocks	3/9	4/4	5/3
In cellular clinker blocks	3/11	4/7	5/3
In hollow clay blocks	—	4/6	5/7

Clinker blocks in small quantity .. 6/5 7/9 9/1
Intermediate quantities in all types may be had at intermediate prices.
Smooth in lieu of keyed faces extra cost per side 3d per yd super

SINKS—

Fireclay white glazed in and out—standard quality	24 by 18in	30 by 18in	30 by 20in
London pattern, no overflow,			
6in deep	70/6	98/-	118/9
Belfast, plain edge, 10in deep	89/6	156/6	190/-

FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)— (UNDER 10)

	Foot lineal	Each
	Straight	Bends
9in diameter	5/-	15/-
10in do.	6/1	18/3
12in do.	11/9	35/3
9in diameter, beaded end, 12in high		6/9

FLUE PIPES AND FITTINGS—

	4in	5in	6in
Heavy asbestos type, 6ft length	18/6	25/6	32/6
Do. 3ft length	9/3	12/9	16/3
Do. bends	7/2	9/-	10/8
Light asbestos type, 6ft length	16/-	20/-	25/6
Do. 3ft length	8/-	10/-	12/9
Bends	5/7	7/1	8/8
Baffler	15/5	18/4	19/4

DRAINAGE GOODS

GLAZED STONEWARE STANDARD LIST (NOV., 1956)

	4in	6in	9in
ORDINARY TYPE—Each			
Pipes in 2ft lengths	3/4	5/-	9/-
Bends	5/-	7/6	20/3
Junctions (4in on 4in, 6in on			
6in, 9in on 9in)	8/4	12/6	27/-
Gullies with 4in outlets	12/6	13/9	22/6
4in horizontal inlets	4/-	4/-	4/-
4in vertical do.	6/-	6/-	6/-
Black iron grids	1/6	2/10	5/6

Adjustment to Current Cost

	2ton lots or more	Less than 2ton lots
2in to 9in diameter	100 pieces	Under
'Best' pipes and fittings.	or more	100 pieces
Percentages to add	+7½%	+12½%
Further percentages to be independently added in respect of:		
British Standard pipes, etc., 10. 'Best' Tested pipes, 37½.		
British Standard Tested, 47½.		

IRON DRAINAGE GOODS—

	4in	6in
Each		
Cast iron pipes, 9ft long	105/9	154/9
Do. 6ft do.	75/6	116/-
Do. 4ft do.	57/6	89/-
Do. 2ft do.	35/-	52/9
Short bend	23/9	63/9
Junction	42/-	101/-

DRAINAGE GOODS—Continued

GULLEY PARTS—		4in	6in	
Traps, high level, invert	34/5	93/2	each	
Inlet, bellmouth pattern	18/3	36/3	do.	
Do. with one vertical branch ..	31/7	59/5	do.	
Do. with two do.	85/8	124/8	do.	
Extra for sealed cover	11/-	14/1	do.	

RAINWATER SHOES—

	4in	6in	
With vertical inlet and rebated top ..	45/-	90/-	each
Extension piece	19/9	23/9	do.
Flat loose coated grating	4/8	4/8	do.
Loose solid coated cover	6/3	6/3	do.

MANHOLE CHANNELS, WHITE GLAZED—

Each	4in	6in	9in
Straight, 2ft long	19/2	28/1	47/2
Taper, do.	31/11	31/11	48/5
Bends, main, half section	37/-	53/7	88/-
Do., branch, do.	22/11	31/11	—
Do., do. three quarters, do. ..	31/11	51/-	—
Junctions, single	30/7	53/7	—
Do., double	42/1	72/8	—

BROWN GLAZED CHANNELS—

Based on standard list (less than 100 pieces)

	4in	6in	9in
Half-round main channel (2ft long) ..	2/6	3/9	7/-
Extra for stop ends	2/6	3/9	6/9
Extra for outlets	5/-	7/6	—
Channel bends with splayed ends ..	7/6	11/3	—
Three-quarter section do.	10/-	15/-	—

MANHOLE COVERS—

		Black
24 by 18in foot traffic .. ..	..	31/9 each
Do. Strong do. .. ..	..	58/3 do.
Do. Light car traffic .. ..	..	102/- do.
Do. Road traffic .. ..	..	130/- do.

SUNDRIES—

	Galvanized
Manhole steps (for 9in)	9/9 each
4in Mica valve fresh air inlets ..	18/3 do.
Plumber's hemp	9/- per lb
Gaskin, caulking	1/5½ do.
Canvas backed hair felt, 4in wide ..	9d per ft run

ROOFING MATERIALS**WELSH SLATES (delivered)—**

Sizes in inches	Full Loads	Quantity 500 to 999	1 to 49
22 by 11	per 1,000	per 100	per doz
20 by 10	2260/-	277/3	40/9
18 by 10	2070/-	251/6	37/-
16 by 10	1420/-	172/3	25/3
14 by 10	1120/-	133/3	19/9
14 by 9 Damp Course	668/-	75/9	11/3
14 by 4½	328/-	33/3	4/9

TILES (Brosley and Staffordshire)—

	per 1,000	per 100
10½in by 6½in Machine made, 6ton lots	302/6	39/9
Do., hand made, sand faced (Berks red)	327/-	47/3
Hips, valleys and angles	36/3 per dozen	—
Plain concrete tiles	per 1,000	per 100
	210/6	25/6

Sheeting asbestos corrugated, 6in pitch	8/3½ yd super
4½in by 16 gauge, drive screws (galvanized)	18/3 gross
7½in by ½ hook bolts and nuts (do.)	65/6 do.
Washers, round, flat galvanized	4/10 do.
Do. do. bituminous	2/- do.

ROOFING FELT—

Sanded bitumen felt (44lb)	1/2 yd super
Do., but 60lb in weight	1/10 do.
Inodorous felt, best quality	2/11 do.
Do., second quality	2/3 do.
Underlining	1/8 do.
Sheathing	1/8 do.
Galvanized felting nails	2/4 lb

THERMAL INSULATION—

½in Insulating Gypsum Baseboard (600sq yd)	2/9 sq yd
½in Do. Do. Lath do.	2/9 do.
½in Do. Do. Wallboard do.	3/- do.
½in Asbestos (Fully-compressed) Sheet	8/4 do.
½in Insulating Cork Slabs	7/6 do.
Silicate Cotton (2ton lots)	1/6 ft cube

STONE

Free on rail London
 Monks Park 10/3 St. Aldhelm 11/6 average in blocks of 17ft cu
 Portland brown Whitbed 9/10 average in blocks of 25ft cu
 Douling 10/10 Beer 10/6

TIMBER**Softwood—sawn—random lengths.**

	Per standard	Per cubic ft
Carcassing quality	£100	12/2
Joinery quality	£130 and up	15/9½
Plain edged unsorting flooring	½in 1in	1½in 1½in
per square	90/- 110/-	138/- 165/-
½in Hardboard 4/1 sq yd.		
½in Do. 6/6 sq yd.		
Larger quantities cost less.		

SUNDRIES—

	Dia.	3in	6in	9in
Black hexagon	½in	11d	1/3	1/6
bolts, nuts and washers, Each	½in	1/4	1/9	2/2
Sashline, hemp, good quality	½in	1/10	2/5	3/1
Per yd Run		No. 6 10d	No. 8 1/1½	No. 10 1/5
Floor brads				84/3 per cwt
Cut Clasp Nails				85/6 per cwt
Steel ordinary screws	1in No. 8 3/8	3in No. 8	6/3	per gross
Brass, do.	Do. 10/2	Do.	17/11	

HARDWOOD. Normal joinery quality.

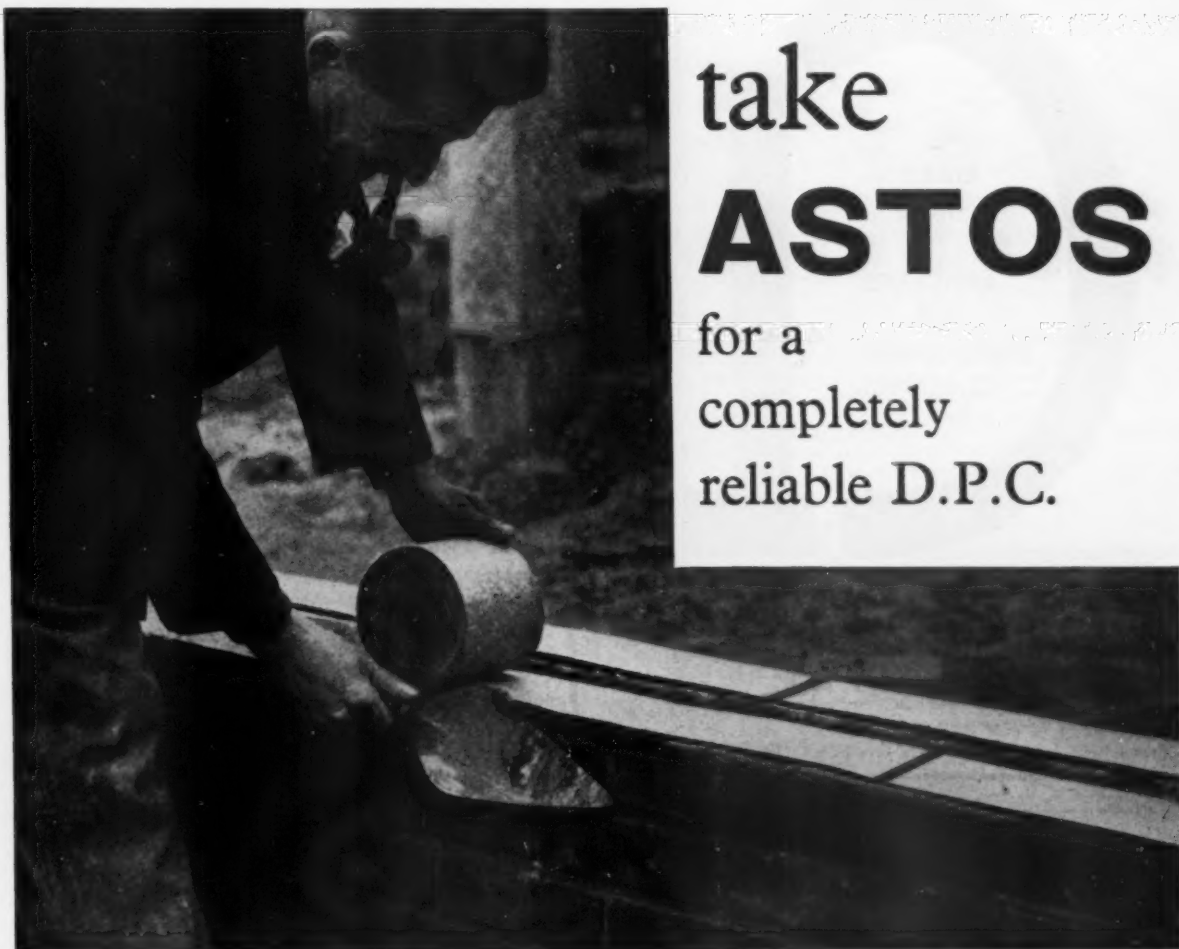
	Square edge	Per ft cube
Mahogany, African	..	30/-
do. Honduras	do.	66/-
Teak, Burma and Siam	do.	78/-
Walnut, Australian	do.	84/-
Oak, English	Sawn Logs	42/-
do. Yugoslavian	do.	47/6
Walnut, African	do.	25/-

BUILDING BOARDS

Description	Rate	Unit
16mm Birch blockboard	208/-	Per 100ft
22mm do. do.	257/-	
Austrian Mahogany faced one side, blockboard 18mm thick	367/-	super,
Austrian figured Oak faced one side, blockboard 19mm thick	414/-	but
Beech, 6mm plywood	109/-	from one board
Birch, do. do.	100/-	
Do. 9mm do. do.	142/-	up to
Teak faced one side, plywood 6mm thick	397/-	a
Austrian figured Oak one side, 6mm	222/-	
Australian do. Walnut do. do. ½in	296/-	bundle

IRONMONGERY

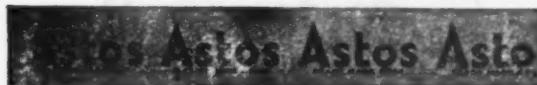
	2in	3in	4in	5in	6in
Cast iron Butts, per pair	1/5	2/5½	3/9	7/1	10/2
Hinges, spring, single action regulating, japanned, each ..	—	8/3	12/9	16/9	22/3
Do. but double action spring only, each ..	—	17/6	22/3	21/-	35/9
Do. blank only, each ..	—	10/3	14/-	28/-	24/3



take
ASTOS
for a
completely
reliable D.P.C.

An Astos dampcourse gives *permanently* effective protection. It cannot be damaged by vibration and normal settlement.

Astos is easily identified on site by the gold band and black lettering. (Green lettering for lead-lined Astos). The original asbestos/bitumen dampcourse, it complies fully with British Standard requirements. Available in 24 ft. rolls in wall widths up to 36 inches. Type 5C, 7 lb. per square yard. Lead-lined (Type 5F) 9½ lb. per square yard.



This mark appears on a gold band on all Astos dampcourse at 8 ft. intervals.

take **ZYLEX** slaters' felt

to complete the weatherproofing, provide a completely dependable secondary roof, reduce heat losses. Reinforced Zylex for open rafters, Standard for boarded roofs, Aluminium Foil Surfaced for even greater insulation.

Specify **RUBEROID** *and you specify the BEST!*



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THE RUBEROID COMPANY LIMITED 94, COMMONWEALTH HOUSE, 1-19 NEW OXFORD STREET, LONDON, W.C.1.
Holborn 9501 (5 lines)

EA611

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**RAWLINGS BROS
LIMITED**

85 GLOUCESTER ROAD, LONDON, S.W.7

Telephone: FREmantle 8161 (10 lines)

IRONMONGERY—Continued

	12in	18in	24in	30in	36in
Tee hinges (japanned)					
per pair	2/-	3/10	—	—	—
Do., but stronger, per pair	3/4	6/1	8/3	—	—
Hook and Ride hinges, per pair	—	—	20/5	27/8	33/11
BOLTS—each—	3in	4in	6in	8in	10in 12in
Cabinet, barrel, straight or necked	1/11	2/3½	3/1	—	—
Square spring, with brass knob	1/11	—	—	—	—
Tower bolts	—	2/7	3/8	4/11	6/2 7/2
Barrel bolts	—	3/10	5/6	7/3	9/4 11/5
Add to Tower or Barrel bolts if necked	9d	9d	1/4	1/3	1/3 1/3
LOCKS—each—					
Rim lock, 2 lever, wrote case, brass bolt and bushing	13/6	Brass furniture or Bakelite do.	5/-	3/3	
Mortice lock, 2 lever, bushed	13/6	Bakelite finger-plates	2/8	8/9	
		Brass furniture or Bakelite do.	3/10	17/-	
Cylinder latches, japanned case	—	—	—	—	each 5/-
Brass sash fastener	—	—	—	—	do. 1/8
Case metal fasteners (malleable)	—	—	—	—	do. 2/3
Do. stays (do.)	—	—	—	—	do. 3/3
Axle pulleys (brass face, iron wheel)	1½in	—	—	—	do. 4/11
Do. as last, but with brass wheel	1½in	—	—	—	per yard 1/2½
Sash line, No. 8 Anchor, yellow label	—	—	—	—	

METAL GOODS

British rolled steel joists ex mills to basic sections on site (6in by 5in, 8in by 5in or 6in, and 10in or 12in by 6in) .. £42/10/0 per ton

Extra cost over basis for following sections—

9in or 18in by 7in, 14in by 5½in, 15in by 5in, 14in or 15in or 16in or 18in by 6in, 20in by 6½in, 20in by 7½in, 10in or 12in or 14in or 18in by 8in	10/-	per ton
5in by 4½in, 7in by 3½in, 13in by 5in	15/-	do.
12in by 5in, 22in by 7in	20/-	do.
6in by 4½in, 7in or 8in or 9in by 4in, 10in by 5in	25/-	do.
4in by 3in, 10in by 4½in	30/-	do.
5in by 2½in, 5in by 3in	35/-	do.
6in by 3in, 24in by 7½in	40/-	do.
3in by 3in	50/-	do.
4½in by 1½in	65/-	do.
3in by 1½in, 4in by 1½in	70/-	do.
lin mild steel reinforcing rods ex mill d/d	£41/0/0	do.

Extras per ton

½in or ¾in diameter in size	15/-	per ton
¾in	30/-	do.
1in	62/6	do.
1½in	92/6	do.
2in	132/6	do.
2½in	172/6	do.

Extras for length

5ft to 3ft	7/6	do.
3ft to 2ft	15/-	do.
2ft	22/6	do.
40ft to 45ft	15/-	do.
45ft to 50ft	22/5	do.
Bolts and Nuts	112/-	per cwt
Trench covering, including trays 1½in deep and rebated frames, 9in wide	25/-	foot run
Do., but 12in wide	27/-	do.
Do., but 14in wide	30/-	do.
Do., but 18in wide	39/-	do.

METAL SUNDRIES

Cast iron pavement lights with 4in by 3in prism and convex lenses in alternate rows	33/-	per ft super
Iron single fire doors, panelled both sides, pivot hung and self closing, to angle frame rebated and lugged, to meet fire regulations	54/-	do.
24 gauge galvanized Tallboy 6ft high, 9in diameter with 9in by 12in base	55/-	each

CHAIN LINK FENCING—

In 25 yards lineal rolls inclusive of line wire.

2in mesh	36	42	48	60	72
10½in wire gauge	129/-	150/6	172/-	215/6	258/3
12½ do.	90/-	104/9	119/9	149/9	179/9
14½ do.	62/9	73/6	83/6	104/9	125/6

DOUBLE SOOT DOORS AND FRAMES—

Fitted with brass turn-buckle and cast key 9in by 9in 12in by 9in 14in by 12in 26/6 38/6 66/3

SLIDING DOORS, GATES AND PARTITIONS—

Factory sliding doors in two leaves containing about 100sq ft with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete .. 18/6 ft super
Factory entrance gates with mild steel frames clad with 2in mesh chain link complete .. 16/6 do.

STEEL ROOF LIGHTS—

In Skylights and Lanterns, Standard type with puttyless glazing, lead flashings, and ¼in rough cast glass; in the case of Lanterns 18in vertical sashed sides are provided in addition.

Size at Base	6ft by 4ft	8ft by 6ft	10ft by 8ft
Skylights	£35 5	£50 10	£69 10
Lanterns	£55	£76 5	£110

HIGH GRADE DOMESTIC BOILERS—

Coke Fed. Performance 20 to 40 gallons raised from 40° F to 140° F per hour as under.

TYPE	£	s.	d.
20 gallons per hour			
15in wide, 23in high	Enamel finish	11	10 0
25 gallons per hour			
17in wide, 26in high	Do. Grey Mottle	20	10 0
	Do. Cream Mottle	22	0 0
40 gallons per hour			
22in wide, 30in high	Do. Cream Mottle	38	0 0

GAS, WATER AND STEAM TUBES
BASIC PRICES

Internal Diameter—	½in &	¾in	1in	1½in	2in
Tubes per ft	9½d	10d	1/-	1/2½	1/9
Bends each	1/7	1/9	2/-	2/6	3/8
Elbows, sq. do.	1/8	1/10	2/2	2/6	3/-
Do., round do.	1/10	2/-	2/4	2/10	3/4
Tees	2/-	2/2	2/6	3/2	3/8
Crosses	4/4	4/8	5/6	6/6	8/2
Backnuts	4d	4d	6d	7d	10d
Sockets	6d	6d	8d	10d	1/-
Sockets					
dimin. do.	8d	10d	1/-	1/2	1/6

EX. STOCK IN ORDERS OF £10 OR MORE DISCOUNTS OFF BASIC LIST.

TUBE—

Black	Galvanized
Medium (Blue)—35%	Medium—25%
Heavy (Red)—25%	Heavy—15%

FITTINGS—

Black	Galvanized
Heavy—10%	Heavy—2½%

RAINWATER GOODS (Painted or Unpainted)

In consignments of 5cwt and over From Standard List

Pipe:	2in	3in	4in	5in	6in
6ft lengths	12/10	14/5	18/11	24/8	31/6
3ft do.	7/-	7/9	10/-	13/1	16/6
Shoe, ordinary	2/7	3/10	5/7	9/5	12/11
Bend	3/1	4/4	6/4	11/3	14/7
Branch, single	4/6	6/7	9/3	14/7	22/6
Offset, 4½in	3/9	5/3	7/9	12/11	17/-
Do. 9in	4/11	6/6	9/8	15/3	19/3
H.R. gutter, 6ft length	—	6/-	8/5	10/4	13/10
Angle or nozzle	—	2/6	3/1	3/9	5/4
Stop end	—	9d	1/1	1/6	1/9

Above plus 25%

PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—			
Metal lathing (½in by 24G) (20 yards)	..	4/-	sq yard
Plaster baseboard ½in (1,200 yards) ex works..	..	2/2½	do.
Lath nails, galvanized ..	..	1/6	lb
White glazed tiles (6in by 6in by ½in) ..	1 yd	26/9	sq yard
Do. rounded on one edge ..	to	32/9	do.
Do. on two adjoining edges ..	10 yd	36/3	do.

PLUMBER'S GOODS

4lb lead sheet (in 1ton lots) ..	..	109/-	per cwt
Lead water pipe in coils (do.) ..	..	111/3	do.
Plumber's solder ..	..	3/7	lb
Copper tacks ..	..	8/5	do.

IRON SOIL AND WASTE PIPE. (5cwt lots and up)

each	2in	3in	3½in	4in
½in Medium pipe, 6ft length ..	14/6	17/2	19/3	21/11
Do., 4ft length ..	10/5	12/2	13/7	15/5
Bends ..	5/4	6/6	8/1	9/1
Do., with oval door ..	17/4	18/6	21/1	24/7
Junction, single ..	6/6	9/8	11/3	13/3
Do., with oval door ..	18/6	21/8	24/3	26/3
Swan necks, 4½in ..	6/6	10/3	11/9	13/9
Do., 9in ..	8/8	11/9	13/9	16/1
Holderbat, 2½in projection ..	5/9	5/11	6/3	6/4

Above plus 25%

GALVANIZED CISTERNS, TANKS AND CYLINDERS—
(Less than three)

each	gallons			
CISTERNS				
Bends over tops and corner plates. Riveted or welded	Nominal capacity			
	100	150	200	300
14 gauge	174/-	235/-	295/-	417/-
12 gauge	211/-	292/-	344/-	464/-
½ in plate	241/-	339/-	399/-	542/-

HOT WATER TANKS

Riveted and with handhole and ring ..	20	25	30	40
12 gauge ..	147/-	151/-	164/-	190/-
½in plate ..	165/-	168/-	184/-	211/-

HOT WATER CYLINDERS—

Riveted, with handhole and ring ..	20	25	33	39
12in gauge ..	166/-	182/-	203/-	219/-
½in plate ..	181/-	200/-	221/-	240/-

PLUMBER'S BRASSWORK, etc.

	Each	Each	Each	Each
Boiler screws, single nut ..	1/8	2/2	3/6	6/-
Do., double nut ..	2/4	2/11	5/6	8/-
Cap and lining ..	1/3	1/8	2/-	2/2
Plumber's unions ..	2/6	3/1	4/2	7/5
Ball valves, screwed iron ..	14/2	22/3	—	—
Do., fly nut and union ..	15/2	24/-	—	—
Bib valves, crutch top screwed iron ..	8/9	12/9	—	—
Do., but screwed boss ..	10/-	14/6	—	—
Stop valves, screwed iron ..	7/9	10/6	—	—
Do., screwed iron and union ..	9/6	13/9	28/6	—
Do., double union ..	10/9	15/6	30/-	—
Waste, plug chain and stay ..	—	—	8/6	9/6
1½in ..	1½in	2in	4in	—
Caps and screws ..	4/6	5/6	7/-	—
Sleeves, long ..	—	—	7/8	11/1
Do., short ..	—	4/6	4/8	9/-
Thimble ..	—	3/10	5/-	10/7
Full way gate valves, hot pressed ..	21/-	29/3	—	—
1½in ..	1½in	2in	—	—
Lead 7lb P. trap ..	7/2	9/5	13/3	—
Do., S. trap ..	8/10	11/7	16/3	—
Lead 6lb P. traps with 3in seal ..	8/-	9/8	—	—
Do., but S. traps, do. ..	9/11	12/2	—	—
Wire balloon guards, copper, 2in, 3/9; 4in 4/-	—	—	—	—
Do., galvanized iron, 2in 1/5; 4in 1/10	—	—	—	—
Hair felt 34in by 20in, 24oz, 6/- sheet	—	—	—	—
Boss white jointing compound, 2/3lb	—	—	—	—
Gasket, 1/10½lb. Hemp, 9/-lb	—	—	—	—

COPPER TUBES—Extract from B.S. 659/1955—

Nominal bore	Internal work (semi-hard) Outside diameter	Gauge	Weight lb per ft	3cwt lots Price per lb pence	Price per ft pence
½in	0.596	19	0.27	43½	11.65
¾in	0.846	19	0.39	41½	16.14
1in	1.112	18	0.62	39½	24.73
1½in	1.362	18	0.76	39½	29.83
2in	1.612	18	0.91	39½	35.72
2½in	2.128	17	1.40	40½	57.23

CAPILLARY TYPE CONNECTIONS—

Add for delivery and packing on orders under £10.

All ends copper to copper

Each	½in	¾in	1in	1½in	2in
Straight ..	1/5½	1/10½	2/10½	4/0½	8/0½
Elbow ..	3/4	4/1½	5/6½	8/7½	13/11½
Tees ..	4/1½	4/8	6/9½	11/3½	19/4½
Brackets (Brass)	2/10½	3/5	3/10½	4/0½	6/5½

GLASS

English, flat drawn sheet glass cut to sizes in squares ..	24oz	26oz	32oz
Figured rolled, white cut to sizes, in squares (½in) ..	11½d	1/2½	1/6½
Ditto, but in standard tints ..	1/2½	1/2½	1/2½
½in Rolled, cut to size, in squares ..	1/2½	1/2½	1/2½
½in rough cast do. ..	1/5½	1/5½	1/5½
½in do. wired do. ..	1/9½	1/9½	1/9½
Georgian wired do. ..	1/9½	1/9½	1/9½
Fluted (No. 1) do. ..	1/8½	1/8½	1/8½
½in Reeded ..	2/4½	2/4½	2/4½
½in Reedlyte (narrow and broad) do. ..	1/7½	1/7½	1/7½
Spotlyte do. ..	1/7½	1/7½	1/7½
½in Calorex Cast do. ..	1/8	1/8	1/8
Flashed Opal (15/18oz) up to 1ft super ..	4/2	4/2	4/2
do. do. over 1ft super ..	5/-	5/-	5/-
Pot Opal (15/18oz) up to 1ft super ..	4/2	4/2	4/2
do. do. over 1ft super ..	5/-	5/-	5/-

POLISHED PLATE GLASS (Tariff) Cut to sizes.

Ordinary substance ½in and ¾in thick.

Per Superficial ft	General Glazing
In plates not exceeding:	
2ft super in each ..	4/7
5ft do. ..	5/7
45ft do. (unless extra sizes) ..	6/9
100ft do. (do.) ..	7/4
Extra sizes, i.e., Plates exceeding 100ft super or 160in one way or 96in both ways at higher prices.	

DECORATING MATERIAL

	Price	Unit
Aluminium Paint ..	41/-	Gallon
Distemper, ceiling ..	39/-	Cwt
Distemper, washable ..	120/-	do.
Enamel (eggshell) ..	52/-	Gallon
Gold Metallic Paint (heat resisting) ..	100/-	do.
Heat Resisting Paint ..	40/-	do.
Japan, black ..	35/-	do.
Knotting ..	40/-	do.
Linseed Oil (5gal) ..	16/-	do.
Boiled, do. (do.) ..	15/6	do.
Proprietary Paints (good class)—		
Finishing ..	57/6	do.
Priming (lead base) ..	57/6	do.
Undercoat ..	59/-	do.
Plaster Primer ..	38/6	Cwt
Petrifying liquid ..	9/6	Gallon
Putty ..	54/6	Cwt
Size ..	12/3	Firkin
Terebine ..	22/-	Gallon
Turpentine substitute ..	6/5	do.
Varnish, oak, copal inside use ..	39/-	do.
Do., do., outside use ..	41/-	do.
Do., white, eggshell, flat ..	50/-	do.
White lead mixed paint ..	66/6	do.
White lead ..	167/6	Cwt
Whiting ..	13/3	do.



Board room panelling and furnishing

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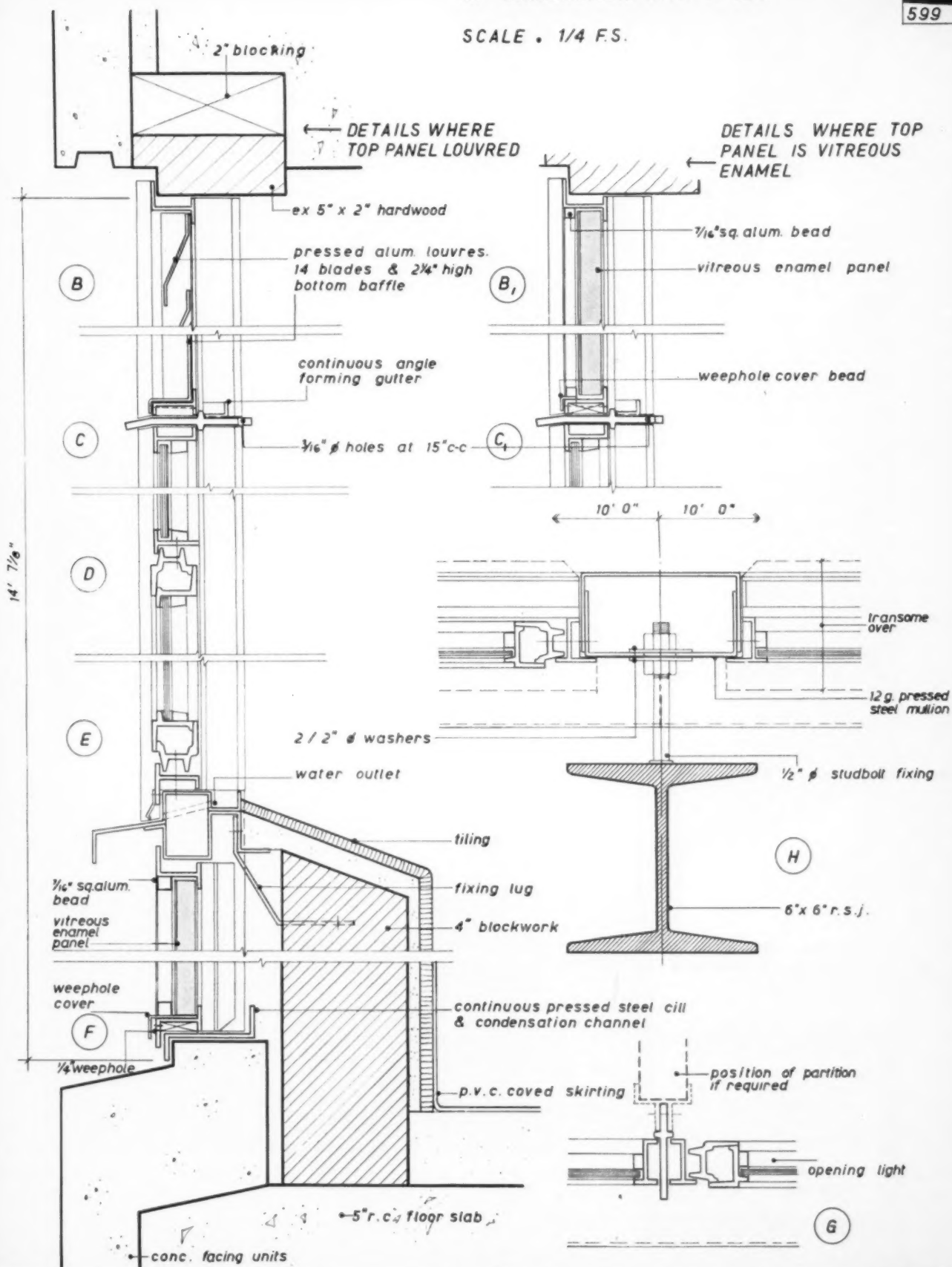
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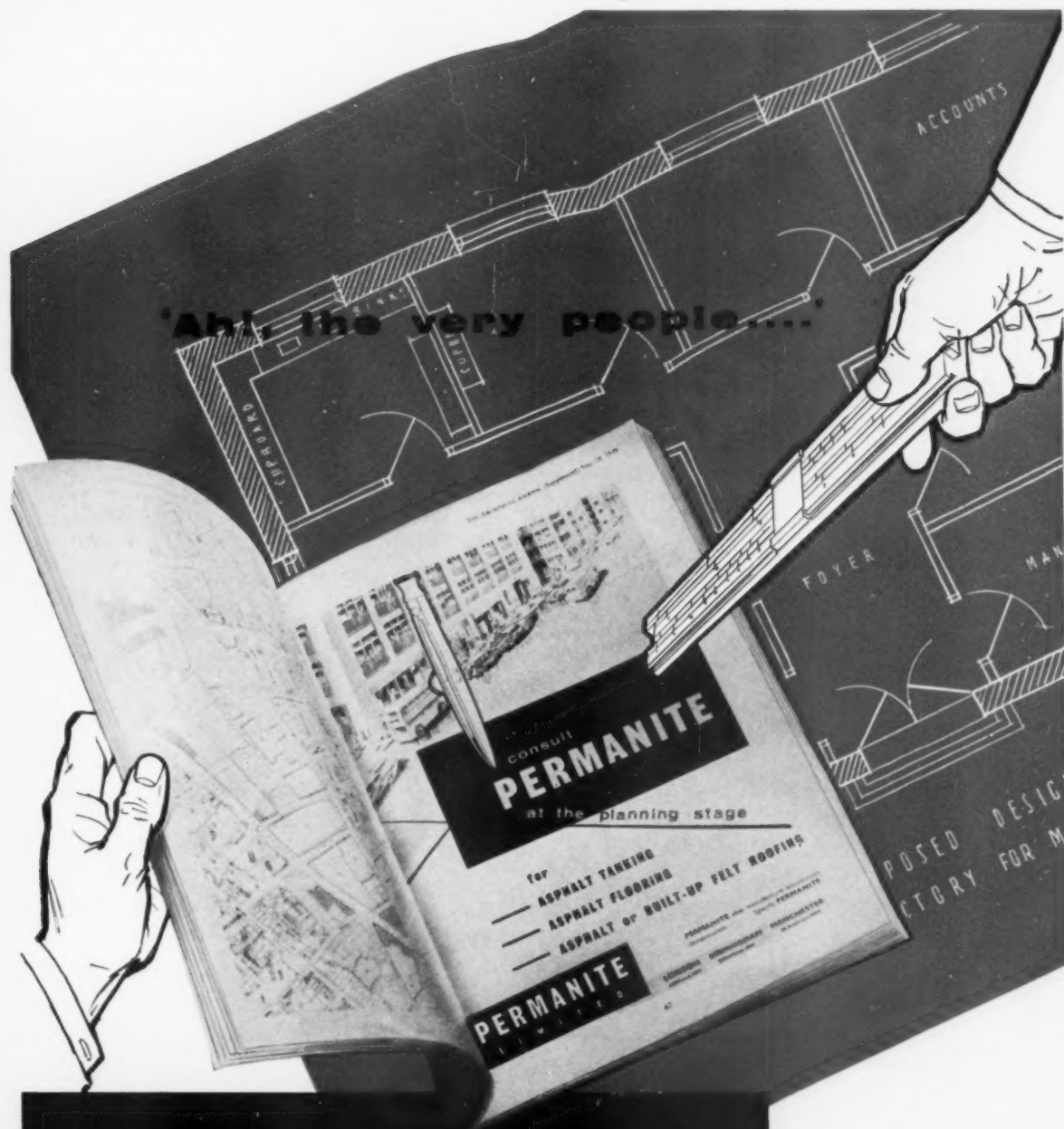


WALL DETAILS 2. FACTORY
HODDESDON, HERTS.



Windows to the new production building for Merck Sharp & Dohme at Hoddesdon are in steel painted white. Aluminium louvres, painted buff, conceal intake and extract ducts to the heating and air-conditioning system. The vitreous enamel panels, which are white below the windows and stone grey above, are backed with insulation. The staircase wall at the back of the loading bay is faced in profile concrete blocks. Architects: Edward D. Mills & Partners





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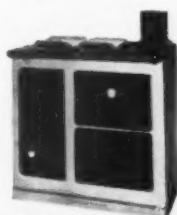
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freestanding openable stove.
In several sizes.



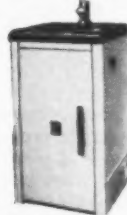
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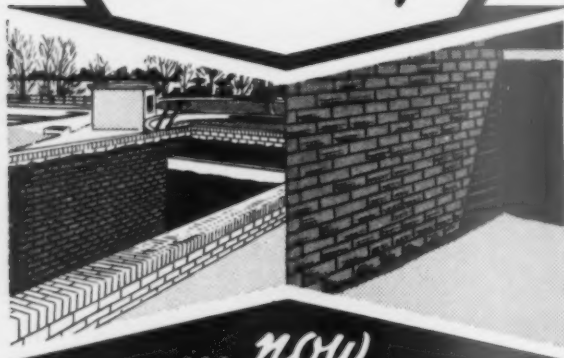
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Our illustration shows a general view of a small part of the Brampton Sewage Disposal Works, and a close-up of one of the tanks which was completely waterproofed by the use of R.I.W. 808 Fibrous Waterproofing Composition.



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Contract News

WORK IN PROSPECT

Barnet C.C. has approved the erection of 10 detached houses and 20 maisonnettes in five blocks in the Quinta Drive extension.

Bedfordshire C.C. The standing committee has approved (a) erection of a police sub-station and pair of police houses in Houghton Regis, cost £11,584; (b) subject to the Home Secretary's approval, the erection of police station behind the existing one, cost £12,650.

Brighton Corporation. The housing committee has approved the erection of two multi-storey blocks of 45 and 46 flats, two three-storey blocks of 12 and 18 flats, with two community areas, estimated cost £284,800. Tenders are to be invited.

Burton-on-Trent Corporation. Alterations and shopfront to 167/167a, High Street for Town Tailors Ltd.

Glasgow Corporation. Erection of two-storey building over St. Enoch Wynd for Gerber Brothers Ltd.

The planning committee has (a) granted planning permission for a petrol service station in Great Western Road for Esso Petroleum Co. Ltd.; (b) approved amended plans for office block with shops in India Street and St. Vincent Street, C.2, for Commercial and General Investments Ltd.; (c) approved the erection of two- and three-storey premises in Dalmarock Road, S.E., for F. W. Woolworth & Co. Ltd.

Lancs C.C. The Ministry of Education has approved the erection of Fleetwood school of navigation.

The education committee has approved an amended scheme for school and child welfare centre at Eccles, estimated cost £20,140.

Londonderry. The Ministry of Education has approved the site for an extension of Londonderry municipal technical college on part of the Strand Road mental hospital site, estimated cost £350,000.

North-West Metropolitan Regional Hospital Board. Tenders are to be invited soon for a residential staff block for the Twin Towns general hospital, estimated cost £200,000.

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Oxford C.C. Erection of four temporary classrooms with accommodation for staff and school meals in Horspath Road, estimated cost £15,000.

The Ministry of Education has approved final plans for second instalment of the college hostel at the college of technology, estimated cost £53,924.

Swanscombe U.D.C. has approved a block of four one-bedroom flats on the Manor Farm estate.

SUBMISSIONS FOR PLANNING AND BYE-LAW APPROVAL

Brighton Corporation. Plans submitted for (1) erection of (a) 10 houses at Bristol Nurseries for R. Green (Brighton) Ltd.; (b) eight pairs of semi-detached bungalows with garages at 1/16 High Bank and four-storey block of 16 flats and eight garages in Upper Rock Gardens and Edward Street for R. Green Properties Ltd.; (c) seven dwellings with garages in Lindfield Close for Lindfield Estate Ltd.; (d) builder's workshop and store with dwelling at 569 Falmer Road for R. Alexander; (e) three-storey block of 12 flats and garages in Eldred Avenue and The Deneway for Hesketh Estates Ltd.; (f) timber hall at Windlesham school; (2) conversion of 2/5 Union Street into five shops with showrooms and offices over for Kingslake Holdings Ltd.; (3) outline for (a) shop premises with offices over at 78/79a, London Road for Tilehouse Property Co. Ltd.; (b) factory in Hollingdean Road for Horsell Electrics Ltd.; (c) three-storey block of 18 flats, block of two shops with maisonnettes over and garages adjoining The Elms in Ladies Mile Road for Park Investments; (4) extension to (a) shop with three offices over at 34/36 Arundel Road for P.S.W. Contractors; (b) old people's home in Preston Park Avenue for The House of Hospitalities Ltd.

Dorchester Corporation. Plans submitted for (1) erection of garage with workshops, offices, store and sanitary accommodation in Prince of Wales Road; (2) outline for showrooms and offices in Trinity Street; (3) extension to shop in South Street; (4) conversion of 6 Linden Road into four flats.

London C.C. Plans submitted for (1) erection of (a) eight-storey block of shops, offices and maisonnettes with basement car park in Park Lane; (b) eight-storey hotel in Norfolk Square; (c) 26-storey blocks of flats in the Latimer Road area; (d) 14-storey building for showrooms, offices, flats and garages at 162-166 High Holborn, 2-9 Museum Street and 10-13 West Central Street; (e) flats (including two 11-storey blocks), houses and garages at 29-49 St. John's Wood Park; (f) 22 houses in Royal Avenue; (g) office block in Mare Street; (h) concrete mixing plant, concrete spinning plant, petrol filling-station, etc., in part of Cable Street and the junction of Butchers Row and the Highway; (2) revised scheme for mechanical engineering building in Exhibition Road and Imperial Institute Road.

Oxford C.C. Plans submitted for (1) erection of (a) eight-storey block of teaching and research laboratories in South Parks Road for University Chest Hospital; (b) school of occupational therapy in Harberton Road for Dorset House school of occupational therapy; (c) building for undergraduates and car storage in Longwall Street; (d) R.C. parish church in Hollow Way and Salegate Lane for Rev. Father T. McKenna; (e) youth club in Barton Road, H. C. Brown for Old Barton Youth Club; (f) three-storey students' residential block for Mansfield College; (g) storage building in Watlington Road for The Pressed Steel Co. Ltd.; (h) hostel for students at 1 Park Town for Miss J. Keays-Young; (i) two-storey storage building in Hockmore Street for John Allen & Son (Oxford) Ltd.; (2) rebuilding garage and petrol station in Ilfley Road for Luxicars (Cowley) Ltd.; (3) alterations and extensions to Magdalen Road for Otam (Oxford) Ltd.; (4) outline for (a) building for St. Catherine's College in Holywell Great Meadow; (b) three-storey block of three flats and five garages in Lucerne Road for J. W. Paine; (5) installation of new floor at 106/110 Cowley Road for Basil Blackwell & Mott Ltd.; (6) extension to (a) 231 Banbury Road for Home & Colonial Stores Ltd.; (b) biochemistry department in South Parks Road.

Penrith U.D.C. Plans submitted for (1) erection of flat over 8/9 Benson Row for B. Panton; (2) alterations to (a) 57 Castlegate for West Cumberland Farmers' Trading Society; (b) 7/8 Market Square for J. & J. Graham Ltd.

Portsmouth Corporation. Plans submitted for (1) erection of (a) shop in Charlotte Street, Landport, for G. S. Shipp; (b) store and offices in Lower Drayton Lane for Drayton, Wainwright Paving & Contracting Co. Ltd.; (c) church hall in London Road, North End, for First Church of Christ the Scientist; (d) locker room, stores and changing rooms at Locks Sailing Club; (e) confessional in Commercial Road for Rev. Mother Superior of St. Mary's Convent; (f) three houses and garages in Pretoria Road for P. J. A. Day; (g) factory and offices in Fitzherbert Road for H. B. S. (Trust) Ltd.; (h) office block and filling gantry in Target Road for Shell Mex & B.P. Ltd.; (i) garage and cleansing shop at Broadway Garage for Motor Metalcrafts Ltd.; (j) factory in Western Road for Midland Cattle Products Ltd.; (k) car showroom, workshop and filling station in Copnor Road for National Benzole Co. Ltd.; (l) shop with flat above and two garages in College Street and Hawke Street for G. H. Kirby; (2) extension to offices in (a) Old High Street for C.E.G.A.; (b) in Lombard Street for Channel Transporters Ltd.; (3) rebuilding of The Monarch public house; (4) alterations and additions to (a) office block in Southampton Road for Johnson & Johnson Ltd.; (b) restaurant in London Road, North End, for Black Swan Holdings Ltd.; (5) conversion of canteen into toolroom at The Airport for De Havilland Aircraft Co. Ltd.; (6) alterations to form four flattened factories at the Victory Brewery in Thomas Street, Landport, for Sinah Investments Ltd.; (7) revised layout of extension to factory in Dundas Lane for Dellagana & Denby.

OPEN

Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate: (a) type of work (b) address for application. Where no town is stated in the address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.

Biggleswade U.C. (a) Erection of three bungalows in Hitchmead Road. (b) Engineer and Surveyor, Stratton House, Biggleswade. (c) October 4.

Birmingham C.C. (a) Erection of mess-rooms at various parks and recreation grounds. (b) General Manager, Parks Department, Civic Centre. (c) 2gn. (e) October 28.

Bournemouth B.C. (a) (1) Contract W.12, Moore Avenue-West Howe Road. Site 4. Erection of one block of 12 flats type X and ancillary works. (2) Contract K.8, Poole Lane-Wimborne Road. Site 5. Erection of eight bed-sitting room flats and ancillary works. (b) Borough Architect, Room 106, Council Offices. (c) 2gn each contract. (e) October 18.

Bucks C.C. (a) Aylesbury further education college and Aylesbury technical school. Erection of above to cost in the region of £400,000. (d) As soon as possible. Documents available September 30. (a) Demolition of old offices and provision of new sanitary accommodation at Whitehill county junior school, Chesham. (b) For both County Architect, County Offices, Aylesbury. (c) 3gn. (e) For both October 31.

Camberwell B.C. (a) Erection of stores building, additions to existing building and fuel store, sub-structure for plant houses and frames at the Horticultural Nursery, Honor Oak Park. (b) Borough Engineer, Town Hall, S.E.5. (c) 2gn. (e) October 19.

Chelmsford B.C. (a) Meadgate scheme No. 3. Contracts 1, 2, 3 and 4. Erection of 114 houses, 48 flats and 145 garages. (b) Borough Engineer, Municipal Offices. (c) 2gn each contract. (e) October 24. The site is at Meadgate Avenue, Great Baddow. Cheques payable Chelmsford Corporation.

Chester C.C. (a) Erection of brick garages and paved areas at Blacon and Newton Hall estates. (b) City Engineer and Surveyor, 49 Northgate Street, Chester. (c) October 3.

Chichester C.C. (a) Erection of 30 bungalows and 52 flats at N.W. Parklands estate. (b) Engineer and Surveyor, Greyfriars, North Street. (c) 2 gn. (e) October 20.

Chislehurst and Sidcup U.C. (a) Erection of 82 dwellings, 45 garages and community room on Northcote Road estate, Sidcup. (b) Engineer and Surveyor, Manor House, Sidcup. (c) 3gn. Tender documents available early October. (d) Immediately.

Crosby B.C. (a) Building work in connection with the installation by a specialized contractor of oil-fired central heating to Civil Defence headquarters building, College Road, and alterations and additions to existing buildings. (b) Borough Engineer and Surveyor, Town Hall, Waterloo, Liverpool 22. (c) 2gn. (e) October 4.

Hemel Hempstead B.C. (a) Erection of a public convenience at Warners End. (b) Borough Engineer, High Street. (c) October 3.

Horsforth U.C. (a) Additions and alterations to the Council offices. (b) Engineer and Surveyor, Council Offices, Manor Road. (c) 2gn. (e) October 7.

Irlam U.C. (a) Erection of public conveniences in Liverpool Road. (b) Engineer and Surveyor, Council Offices. (c) 1gn. (e) October 8.

Isle of Wight R.C. (a) Erection of two blocks of flats and incidental works in Heytesbury Road, Yarmouth. (b) 30 Pyle Street, Newport, I.O.W. (c) 2gn. (e) October 3.

Liverpool C.C. (a) Extensions to nursery school at Chatham Place. (b) City Architect, Blackburn Chambers, Dale Street. (c) 2gn. (e) October 7.

Middlesbrough B.C. (a) Erection of 32 dwellings and 11 garages at Easterside. (b) Borough Engineer. (c) 2gn. (e) October 10.

Middleton B.C. (a) Erection of branch library in Windermere Road. (b) Borough Surveyor, Town Hall. (c) 2gn. (e) October 7.

Newcastle-on-Tyne C.C. (a) Erection of welfare centre with two flats, Fenham Hall Drive, Fenham. (b) Ryder and Yates, architects, Churchill House, 87 Jesmond Road, Newcastle-on-Tyne. (c) October 5.

Nottingham C.C. (a) Erection of police operational centre in Queens Drive. (b) City Engineer and Surveyor, The Guildhall. (c) £2. (e) October 11.

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Portsmouth C.C. (a) Completion and reconstruction of Anglesea Road swimming baths. (b) City Architect, 1 Western Parade. (c) £1.

Reading B.C. (a) Erection of 123 dwellings and 49 garages on the Bulmersh estate. (c) 2gn. (e) October 7. (a) (1) Alterations to pavilion and ancillary works at Coley recreation ground. (2) Erection of public conveniences at Arthur Newberry Park, Armour Hill. (b) For both Borough Architect, Town Hall. (c) October 10.

Ruislip-Northwood U.C. (a) Construction of public convenience at Ruislip Lido. (b) Engineer and Surveyor, Council Offices, Northwood. (c) 2gn. (e) October 12.

Southend-on-Sea B.C. (a) Extensions to lavatory at Bournemouth Park Road primary schools. (b) Borough Architect, 30 Alexandra Street, Southend. (c) £2. (e) October 12.

Surrey C.C. (a) Erection of Rivermead county secondary school, Kingston-on-Thames. (b) County Architect, County Hall, Kingston. (e) October 11.

Sutton and Cheam B.C. (a) Erection of branch library. (b) Borough Engineer and Surveyor, Municipal Offices, High Street, Sutton. (c) 2gn. (e) November 2.

Wallasey B.C. (a) Erection of police sub-station at Leasowe Common. (b) Borough Architect, Town Hall. (e) October 12.

Wandsworth B.C. (a) Erection of 10 two-storey houses and shop with flat over at Prescott Place. (b) Town Clerk, Municipal Buildings, S.W.18. (d) Immediately.

Worsley U.C. (a) Erection of one block of four and one block of two flats with maisonnettes over on the Kingsley Road site. (b) Engineer and Surveyor, Town Hall, Walkden. (c) 2gn. (e) October 8.

York C.C. (a) Erection of 41 dwellings in St. George's Place. (b) City Architect, 8 St. Leonard's Place, York. (c) £3. (e) October 8.

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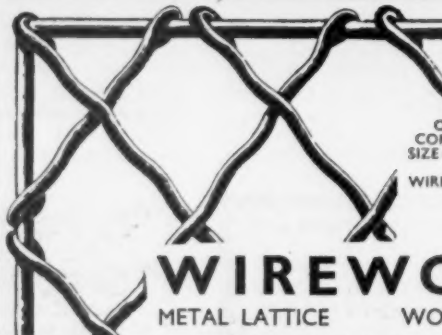
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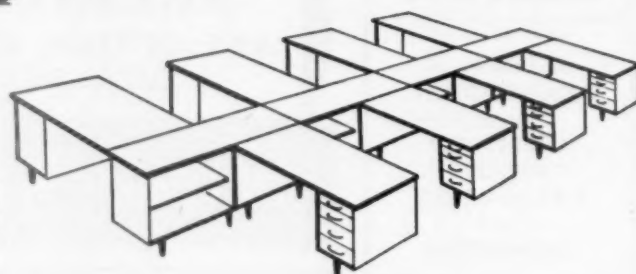
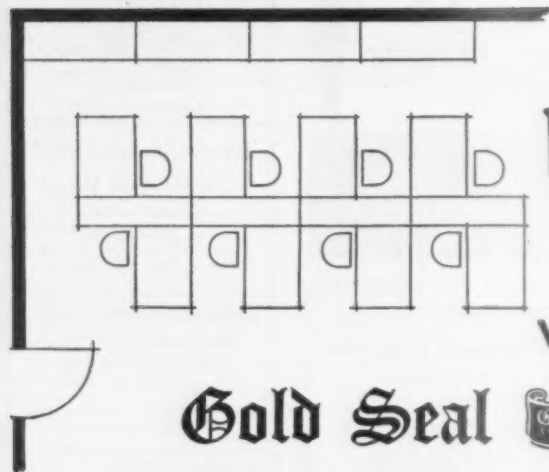
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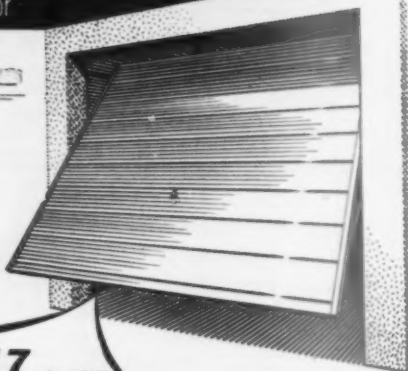
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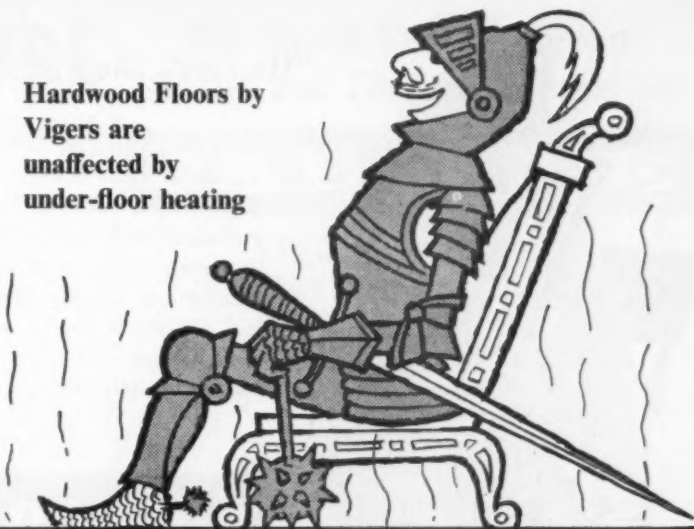
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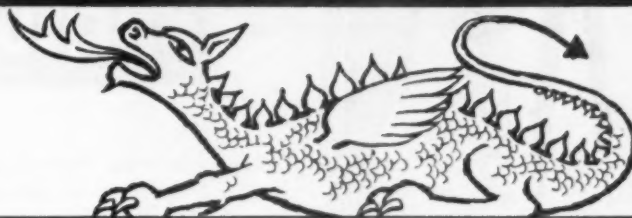
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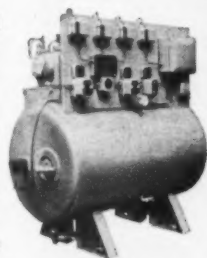
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Official Announcements

APPOINTMENTS CONTRACTS TENDERS

Close for press • first post Monday for following Wednesday issue.

Rates • 25s per inch and pro rata, minimum half inch.

APPOINTMENTS

Urban District Council of Corby JUNIOR ARCHITECTURAL ASSISTANT

(Grade APT I or II)

APPLICATIONS are invited for the above appointment in the Architectural Section of the Engineer and Surveyor's Department.

Applicants must have passed the RIBA Intermediate Examination or its equivalent at one of the recognized schools of architecture and the salary, applicable to candidates of not less than one year's subsequent experience in an architectural office, will be in accordance with APT Grade II (£765-£880 p.a.), otherwise in accordance with Grade APT I (£610-£765 p.a.).

The provisions of the Local Government Superannuation Acts, 1937/53, will apply to this appointment.

Housing accommodation will be made available to the successful candidate if married.

Forms of application may be obtained from the undersigned, to whom they should be returned not later than the first post on Monday, October 10, 1960. Testimonials will be required only from applicants selected for interview.

G. B. BLACKALL,
Clerk of the Council.

Council Offices,
Corby,
Northants.
September 14, 1960.

[6998]

County Borough of Bury
APPLICATIONS invited for the permanent appointment of **ARCHITECTURAL DRAUGHTSMAN**, Miscellaneous III (£525-£590).

Commencing salary according to qualifications and experience. Applications, stating age, qualifications, experience, present and previous appointments and salary, together with the names of two referees, must reach me by October 8, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
September 16, 1960.

[7007]

Corporation of London

APPLICATIONS are invited for the following temporary appointment in the City Engineer's Department:

ASSISTANT SITE ARCHITECT. Salary £1,325 per annum.

This appointment is in connection with the construction under contract of a large Municipal Building and will be for the duration of the works estimated at two-and-a-half years.

Candidates should be Corporate Members of the RIBA and have had a good general experience in preparation of working detail and site supervision.

This appointment is subject to the Standing Orders of the Corporation and the passing of a medical examination.

Applications, stating age, appointments held and experience, together with the names of two referees to be forwarded to the City Engineer, Guildhall, London, E.C.2, by October 10, 1960.

[7020]

Imperial Chemical Industries Limited Paints Division

has a vacancy for an

ARCHITECTURAL DRAUGHTSMAN

AT the Division headquarters at Slough. Candidates should preferably be under 35, hold the HNC in building or Intermediate RIBA, or equivalent, and have experience in Design and Detailing of Buildings preferably, but not essentially, industrial work.

His duties will be concerned with the Design and Detailing of Buildings in connection with factory development including Plant Buildings and ancillary Offices, Laboratories, etc.

Good starting salary; Pension and Profit-Sharing Schemes.

Apply to the Personnel Officer (Technical Departments), Imperial Chemical Industries Limited, Paints Division, Wexham Road, Slough, Bucks.

[7009]

County Borough of East Ham ASSISTANT PLANNING OFFICER Grade APT I (£610-£765)

PRINCIPAL ASSISTANT PLANNING OFFICER

Grade APT IV (£1,065-£1,220)

VACANCIES in Borough Engineer's Department. London Weighting paid in addition.

Salary above minimum paid according to qualifications and experience.

A subsistence allowance may be paid over a reasonable period to persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date, October 14, 1960. [7011]

LANARK COUNTY COUNCIL

County Architect's Department

The Council have decided that all Architectural Work of an Educational and Public Building Nature will in future be undertaken by the County Architect. Consequently a considerable reorganisation and expansion of the County Architect's Department at Motherwell is envisaged, creating a large number of vacancies for

ARCHITECTS and ASSISTANTS

SALARIES RANGING FROM

£1,650 to £605

according to qualifications and experience

The vacancies include a considerable number on salary range £1,450 to £1,600 and afford opportunity to qualified Architects to apply their ability and knowledge to progressive design and modern construction techniques.

A Superannuation Scheme is in operation and a 5-day week is under consideration.

Consideration given to applicants' housing requirements.

Applications to County Clerk
P.O. Box No. 1, Glasgow

Borough of Watford

APPLICATIONS are invited for the following appointments:—

(a) **Assistant Architect**, Salary within Grade APT IV (£1,065-£1,220 per annum).
(b) **Architectural Assistants**, Salaries within Grade APT II/III (£765-£1,065 per annum).

(c) **Architectural Assistant**, Salary within Grades APT I/II (£610-£880 per annum).

The Assistant appointed to post (a) will be a Section Leader and will carry a considerable amount of responsibility.

Commencing salaries will be commensurate with experience and ability, and housing accommodation will be provided if required.

Applications to be sent to the undersigned not later than October 6, 1960.

F. C. SAGE,

Borough Engineer, Surveyor
& Architect.

Town Hall,
Watford,
Herts.

[7002]

The County Council of the County of Wigtown

APPLICATIONS are invited for the permanent appointments of **ASSISTANT ARCHITECTS** (2) in the County Architect's Department. Salary scale—£1,048 x £63(4) to £1,300. Applicants must be ARIBA, having some experience preferably in design and construction of schools. Housing accommodation may be provided. Medical examination. Superannuation. Applications, stating age, particulars of experience and qualifications and giving the names of two referees should be lodged with the undersigned within 14 days of the date of publication of this advertisement.

D. A. AITKEN,
County Clerk.

County Offices,
Stranraer.
September 16, 1960.

[7017]

National Coal Board— North Eastern Division

QUANTITY SURVEYOR required in Civil Engineering Branch, No. 1 (Workshop) Area, Todwick Grange, Nr. Sheffield. Work includes preparation of bills of quantities for varied industrial projects, re-measurement of work on site and agreement of final accounts with contractors. Applicants must be ARICS and have had at least one year's subsequent practical experience.

Salary £815 x £30 to £1,125. Apply to Area Staff Manager at above address by October 7.

[7015]

ARCHITECTURAL ASSISTANTS INTERMEDIATE OR FINALS STANDARD

required in
Chief Architect's office

Interesting and varied work. Five-day week, bonus, etc. Appointments permanent and superannuable.

Write (in confidence) stating age, experience and salary required to Personnel Manager,

WATES LIMITED

London Road, Norbury, London, S.W.16

[0830]

Official Announcements

APPOINTMENTS (cont)

City of Nottingham Education Committee

COLLEGE OF ART AND CRAFTS

Principal: Robert Lyon, DA(Glas), FRSA
Head of School of Architecture: D. W. Notley, B.Arch(Hons), L'pool, ARIBA
APPLICATIONS are invited for the posts of **TWO STUDIO MASTERS** in the School of Architecture of this College. Duties to commence as soon as possible. Candidates should be Architects holding the degree or diploma of a recognized School, and should have had a minimum of three years' practical architectural experience after registration.

Salary to be in accordance with the Burnham Technical Scale for Grade B assistants, i.e. £700 x £27 10s-£1,150 for men, and £630 x £22-£920 (with equal pay increments) for women, plus allowances for training, graduation, and professional experience.

Application forms and further particulars from the Principal, College of Art and Crafts, Waverley Street, Nottingham, to whom the forms should be returned within 10 days of the publication of this advertisement.

All previous applications will be considered in respect of this advertisement.

W. G. JACKSON,

Director of Education.

Education Office,
Exchange Buildings,
Smithy Row,
Nottingham.

[7019]

Government of Nyasaland ARCHITECT, PUBLIC WORKS DEPARTMENT

WILL be required to design a wide variety of public buildings including housing of all types and to administer building operations, whether by contract or direct labour, with the minimum of supervision.

Contract appointment. Salary range £1,545-£1,950 per annum. Gratuity 15 per cent of salary.

Free passages, furnished quarters at moderate rent.

Candidates aged 28-40 years, must be ARIBA with at least five years' post qualification experience.

Write Director of Recruitment, Colonial Office, London, S.W.1, giving full names, age, qualifications and experience, quoting BCD 112/4/022/E.1. [7025]

Metropolitan Borough of Hampstead Require in the Housing Architect's Department

(1) **Two Architectural Assistants** (temporary) on APT Grades I/II (£610-£880 p.a. plus London Weighting) for Intermediate RIBA or Special Scale (£785-£1,070 plus London Weighting) for Final RIBA.

(2) **Junior Architectural Assistant** (temporary), General Division (£210-£730 p.a. plus London Weighting).

Commencing salaries according to qualifications and experience.

Successful candidates will work on area redevelopment and the design and construction of new flats and houses.

Applications, giving training, experience, previous appointments and the names of two referees, to the Town Clerk (AB), Town Hall, Haverstock Hill, N.W.3, by October 12, 1960. No housing provided. [7013]

SURVEYORS (Basic Grade) required by Ministry of Works in London, Home Counties, Birmingham and Aberdeen. National salary scale £805 (at age 25) to £1,260 per annum. Starting pay up to £1,095 at age 34 according to age and experience. Salary for London posts is subject to an addition of up to £40 per annum. Five-day week, 22 days annual leave.

Prospects of promotion and opportunities for permanent and pensionable posts.

Applicants should be Registered Architects by examination or Corporate Members of RICS (Building Section).

Apply stating age, qualifications and full details of experience to Chief Maintenance Surveyor (Recruitment), Ministry of Works (A), Stanley House, Marsham Street, London, S.W.1. [0352]

Metropolitan Water Board Architectural Staff

APPLICATIONS are invited for the following appointments in the Surveyor's department:—

(a) **Assistant Architects.** Salary scale £1,180-£1,300 per annum.

(b) **Technical Assistant.** Salary scale £730 (at age 21)-£1,110 per annum.

Commencing salaries within the above scales according to age and experience.

Applicants for posts (a) must be corporate members of the Royal Institute of British Architects and should have had experience in the design, preparation of plans and working drawings and specifications for the erection of houses and offices. The provision of housing accommodation would be considered.

Applicants for post (b) must have passed the intermediate examination of the Royal Institute of British Architects. These are permanent pensionable posts offering interesting work with good conditions of service.

Forms of application from the undersigned (quoting ref. A.B and position applied for) to be returned by October 24, 1960.

S. D. ASKEW,

Clerk of the Board.

New River Head,

Rosebery Avenue, E.C.1.

[7026]

An attractive vacancy occurs for an

OVERSEAS SALES REPRESENTATIVE

for a large Company of

Sanitary Ware Manufacturers

This is a new appointment with considerable further prospects. The successful candidate will be directly responsible to the Board for all export business and will be visiting agents and other customers throughout the world for much of his time. Applicants must have a good standard of education and a pleasing personality which will enable them to deal successfully with people at all levels. They must have a thorough knowledge of the export trade and sound experience of overseas representation. Candidates should have some technical knowledge of Ceramic manufacture and preference will be given to those who also have sales experience with Ceramic Sanitary ware and metal fittings, or allied products in the field of Sanitation. Preferred ages are 28-35 and the appointment will be permanent, pensionable after a trial period.

Apply in the first instance to:

A. G. HAYEK & PARTNERS LTD.

Management Consultants
and Industrial Engineers
FEDERATION HOUSE
STOKE-ON-TRENT

giving fullest particulars of past background and salary requirements.

Candidates' names will NOT be disclosed to client before first interview.

**Salop County Architect's Department
SENIOR ARCHITECT** required to act as Deputy Group Leader for new work of an interesting character. Salary Grade APT V (£1,220-£1,375 p.a.). Applicants must be Associate RIBA. NJC Conditions. Five-day week.

A disturbance allowance or weekly separation allowance will be paid to a married man taking up this appointment. Conditions of service and application forms obtainable from Ralph Crowe, AADipl, ARIBA, AMTPI, County Architect, Column House, London Road, Shrewsbury. Closing date October 15, 1960. [7021]

City of Leeds City Architect's Department Quantity Surveying Staff Amended Advertisement

A NUMBER of vacancies occur in the Quantity Surveying Section which deals with the preparation of bills of quantities and other work in connection with the large building programmes of the department. These programmes include schools, housing with multi-storey flats, hostels and other interesting projects and the posts offer opportunities to work as part of a team in a progressive office. Post No. 1. **Senior Assistant Quantity Surveyor**, Grade B (£1,320-£1,485).

Applicants should have wide experience in the preparation of bills of quantities for major works including schools.

Post No. 2. **Senior Assistant Quantity Surveyor**, Grade A (£1,310-£1,420).

Applicants should have considerable experience in taking off and preference will be given to those with experience in cost analysis and cost planning.

Post No. 3. **Senior Assistant Quantity Surveyors**, Grade APT V (£1,220-£1,375).

Applicants should have considerable experience in taking off, in the measurement of work in progress and the settlement of final accounts for major schemes.

Post No. 4. **Senior Assistant Quantity Surveyors**, Grade APT IV (£1,065-£1,220).

Post No. 5. **Senior Assistant Quantity Surveyors**, Grade APT III (£880-£1,065).

Applicants for posts Nos. 4 and 5 should be experienced in the measurement of variations and the settlement of final accounts for large schemes and should have some experience of taking off.

Post No. 6. **Senior Worker-up**, Grade APT III (£880-£1,065).

The salaries quoted are subject to revision.

It is essential that applicants for this post should have the ability to write a good bill for major schemes and should have wide experience of this type of work in a professional office.

Applicants for posts Nos. 1, 2 and 3 should hold appropriate professional qualifications and applicants for posts Nos. 4 and 5 should have reached the appropriate standard of qualification and preference will be given to those qualifying for the Quantities sub-division of the RICS.

The appointments are superannuable—medical examination.

Assistance will be given in providing housing accommodation in approved cases, if required.

Further details and application forms may be obtained from the undersigned and applications are to be returned by 12 noon on Friday, October 21, 1960.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry Hill,
Leeds 9.
September 21, 1960.

[7022]

Official Announcements

APPOINTMENTS (cont)

City of Leeds

City Architect's Department
Amended Advertisement

APPLICATIONS are invited from persons holding appropriate professional qualifications for the following permanent posts:—

- (a) **Assistant City Architect** (Housing).
- (b) **Assistant City Architect** (Education & General).

Salary scale £1,790-£2,085 per annum. Grade 'F'.

The Assistant City Architect (Housing) will be concerned with large house building programmes and should have had a wide experience of all forms of housing layout, comprehensive developments and multi-storey flats.

The Assistant City Architect (Education & General) will be concerned with major educational building projects and large public buildings, e.g. multi-storey college, municipal office block, abattoir, swimming baths, etc.

Both posts carry great responsibilities and offer worthwhile opportunities to those who are keenly interested in design and the planning and organization of extensive municipal building schemes.

Applications are also invited for the following permanent posts in (a) Housing and (b) Education & General sections of the department.

Post No. 1. **Principal Architects**, Grade C (£1,385-£1,620).

Post No. 2. **Assistant Principal Architects**, Grade B (£1,320-£1,485).

Post No. 3. **Senior Assistant Architects**, Grade APT V (£1,220-£1,375).

Post No. 4. **Senior Assistant Architects**, Grade APT IV (£1,065-£1,220).

Post No. 5. **Assistant Architects**, Grade III (£880-£1,065).

Post No. 6. **Architectural Assistants**, Grade APT II (£765-£880).

The salaries quoted are subject to revision.

Applicants for the senior posts must hold appropriate professional qualifications and should have had a wide experience in either housing, education or other types of large public building work and will be required to design and work on these projects to completion. Applicants will be considered on their capability for design, experience, contemporary outlook and suitability.

The appointments are superannuable—medical examination.

Assistance will be given in providing housing accommodation in approved cases, if required.

Further details and application forms, obtainable from the undersigned, are to be returned by 12 noon on Friday, October 21, 1960.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,
City Architect.

Priestley House,
Quarry Hill,
Leeds 9.

September 21, 1960.

[7023]

Darlington Urban District Council APPOINTMENT OF ARCHITECTURAL ASSISTANT APT IV (£1,065-£1,220)

APPLICATIONS are invited for the above appointment in the Engineer and Surveyor's Department at a salary within APT IV (£1,065-£1,220) according to qualifications and experience. Housing accommodation will be available if required.

The appointment is subject to the National Conditions of Service, and the passing of a medical examination.

Architectural work being carried out by the department includes housing, work in connection with central area redevelopment, a sports pavilion, and a central depot.

Applications, stating age, qualifications and experience, and giving the names and addresses of two referees, must reach the undersigned not later than October 15, 1960.

Canvassing will disqualify.

G. R. ROWLANDS,
Clerk of the Council.

Town Hall,
Darlington, S. Staffs.

[7030]

Borough of Oldbury Borough Engineer and Surveyor's Department

APPLICATIONS are invited for the following appointment on the staff of the Borough Surveyor's Department.

ARCHITECTURAL ASSISTANT,
Salary APT II (£765-£880).

Candidates should be well trained and experienced in the design and preparation of schemes and supervising contracts in connection with general housing including multi-storey flats, public buildings, school buildings and minor improvements and maintenance works.

The appointment will be superannuable subject to the National Conditions of Service and to the selected candidate passing a medical examination.

Applications giving particulars of age, qualifications, experience, and the names of two referees, should be delivered to the undersigned not later than October 7, 1960.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury.

September, 1960.

[7028]

Welsh Regional Hospital Board REQUIRED in ARCHITECT'S DE- PARTMENT, situated near Civic Centre, ASSISTANT QUANTITY SUR- VEYORS. Salary £905-£1,310.

Applicants must hold the final examination of the Royal Institution of Chartered Surveyors and have a good experience in taking off, preparation of bills of quantities and estimates, and valuation of works in progress and the settlement of final accounts.

Posts superannuable and five-day week applies.

New entrants to the Health Service will commence at the minimum point of the Salary Scale. The board has, however, discretion to fix a starting point at an incremental point above the minimum, where it is considered a candidate has relevant practical experience appropriate to the post to be filled.

Applications to the Secretary, Temple of Peace and Health, Cathays Park, Cardiff, stating age, qualifications, experience, present position, and salary and names of two referees within 10 days.

[7029]

ARCHITECTURAL APPOINT- MENTS VACANT

ASSISTANTS urgently required, intermediate to final standard. Interesting and varied work with opportunities for site supervision. Salary from £600 plus L.V. G. Gordon Stanham, Adamson, Gray & Partners, 9/10 Fenchurch Street, London, E.C.3. MANSION House 1010 or 5274.

[0350]

DEVEREUX & DAVIES require capable and enthusiastic assistant architects, salary £1,000 per annum or according to experience and ability.—Devereux & Davies, 3 Gower Street, Bedford Square, London, W.C.1.

[0660]

ARCHITECTURAL ASSISTANT, intermediate standard. Busy London office. Good prospects. Box 3668.

[0080]

WEST END OFFICE requires Assistant Architects of Final and Intermediate Standards for interesting industrial projects in Home Counties. Good salaries offered to men with initiative and ability. Bonus scheme, five-day week, holiday arrangements honoured. Box 0627. [0380] **ARCHITECTURAL ASSISTANT** required, with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1.

[0916]

W. S. HATTRELL & PARTNERS, who are engaged on a wide range of work including Central and Urban Redevelopment Schemes, Television Studios, Schools, Licensed premises, Factories, Office Blocks, Training College, Shops, Exhibition Hall, etc., urgently require:—

- (a) **ARCHITECTS** with good design sense and first-class knowledge of construction and administration capable of taking charge of contracts and controlling junior staff.

- (b) **ARCHITECTURAL ASSISTANTS** capable of preparing full working drawings, specifications, etc., under supervision and keen to gain experience.

Salaries, which are reviewed annually, are dependent on ability and experience.

Vacancies exist in our Coventry, London and Manchester offices and if you are capable, enthusiastic and prepared to work hard in a busy, lively, expanding practice, apply, stating experience, salary required and which of our offices you would prefer to work in, to 1 Queens Road, Coventry.

[7001]

BASIL SPENCE & PARTNERS require qualified and experienced Architects to fill positions of responsibility on a major building programme. Write to 48 Queen Anne Street, W.1, stating experience and salary required.

[0740]

ARCHITECTURAL ASSISTANT required, able to work on own initiative, varied practice, small office, opportunity for advancement. Write or phone, Nicholson & Rushton, 2 New Square, Lincoln's Inn, W.C.2. HOLborn 2095.

[0980]

ARCHITECTURAL ASSISTANT, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667.

[0079]

A LONDON OFFICE in pleasant surroundings, not a country practice. Architect requires senior and intermediate assistants for work on large projects of very varied nature. Apply in writing, stating age, experience and salary required, to Roff Marsh, F.R.I.B.A., M.T.P.I., 125/7 London Road, Chelmsford.

[6957]

Official Announcements

ARCHITECTURAL APPOINTMENTS VACANT (cont)

ELIE MAYORCAS requires architectural assistants with a minimum of three years' office experience in this country. Write, giving brief particulars of architectural education and experience, and salary required, to: 13 David Mews, Baker Street, W.1. [0340]

RONALD WARD & PARTNERS invite applications from Architects, senior and junior. Long-term prospects. Scope for initiative and responsibility in interesting commercial, industrial and civic projects in British Isles, West Africa and Australia. Salaries commensurate with ability. Non-contributory Pension and Life Insurance schemes. Five-day week. Pleasant offices. Apply 29 Chesham Place, Belgrave Square, London, S.W.1. Tel: BELgravia 3361. [6971]

ARCHITECTURAL ASSISTANT required in Architect's Branch, Denaby Main, Nr. Doncaster. RIBA Intermediate and three years' subsequent practical experience, or Final and one year's experience desirable; unqualified applicants with considerable practical experience also considered. Salary £715 x £25 to £850 (exceptionally £1,000). Full details and application forms from Mr. H. Smith, FRIBA, P.O. Box No. 4, Denaby Main, Nr. Doncaster; forms to be returned by October 7. [7016]

RESPONSIBLE ASSISTANTS for colleges, hostels, schools, offices. Salary according to ability. Apply Charles Pike & Partners, 14 Lincoln's Inn Fields, W.C.2, or phone HOL 3532. [7018]

ARCHITECT'S ASSISTANTS required in Central Birmingham office to work on a variety of interesting projects. Salary according to experience and ability £750 to £1,000. Five-day week. Birmingham Central 6139 or Box No. 1879. [7014]

VACANCIES in office of architect dealing with work for big multiple company:

(a) Final standard (or near).

(b) Intermediate or Junior.

(a) involves responsibility for jobs from and including design stage to completion; (b) will be concerned with design detail and close association with jobs in progress.

Both posts require keen interest in contemporary design and modern methods. Excellent salaries and prospects. Luncheon Vouchers and Pension Scheme. Apply Nadine Beddington, ARIBA, FRSA, MSIA, 301-307 Oxford Street, London, W.1. [7010]

ARCHITECTURAL ASSISTANT (Intermediate) for work on schools and housing. Write Eric Lyons, Mill House, Bridge Road, Hampton Court, Surrey. [0339]

ARCHITECTS of differing grades required for a variety of interesting work, particularly industrial. Please apply: A. M. Gear & Associates, 12 Manchester Square, London, W.1. Telephone: HUNter 0331. [6981]

ARCHITECTURAL ASSISTANTS, for preparation of working drawings and specifications and supervision of contracts for buildings in parks and open spaces.

ASSISTANT LANDSCAPE ARCHITECTS for preparation of schemes, working drawings and specifications, and supervising contracts. Interesting work on new parks, open spaces and housing estates.

Up to £950 according to qualifications and experience. Apply Chief Officer, L.C.C. Parks Department (A1/ABN/2511/9), County Hall, S.E.1 (WATERloo 5000, Ext. 8076). [7027]

QUALIFIED ASSISTANT ARCHITECT for interesting and varied work in and around Midlands. Salary according to experience and ability. Forty-hour week, staff pension scheme.

Intermediate standard also required to assist on similar projects.

Hellberg & Harris, F/FRIBA, 13 Queen Victoria Road, Coventry. [7004]

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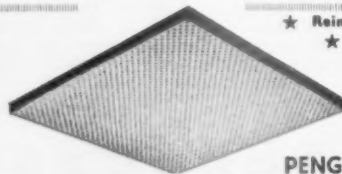
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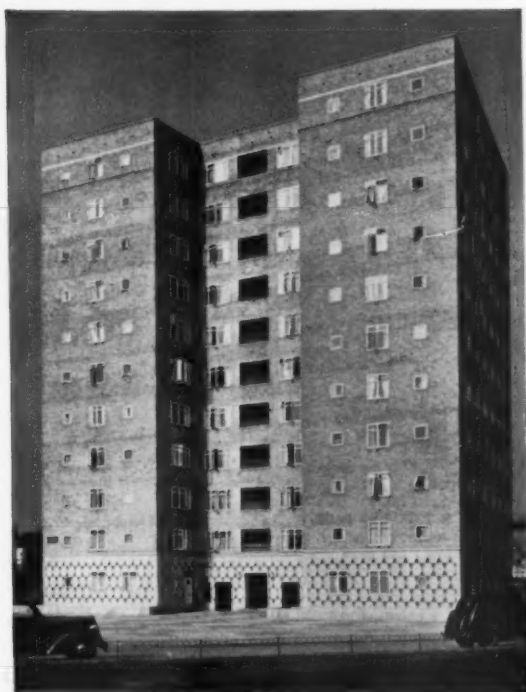
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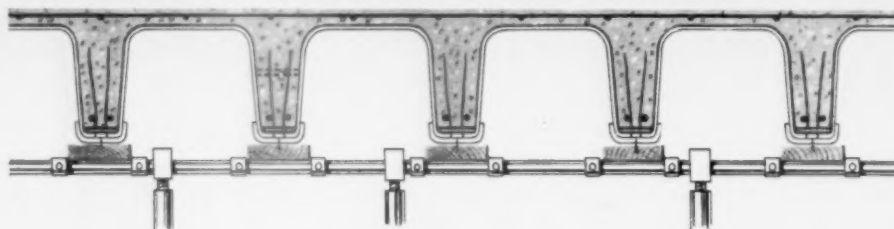
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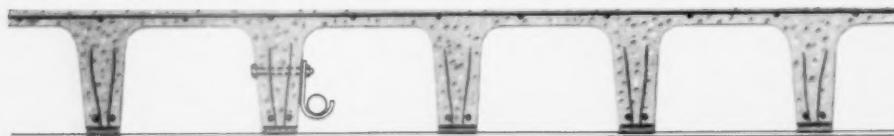
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